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For Retailer, Wholesaler and Manufacturer

NOVEMBER 12 1960



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CHEMIST AND DRUGGIST

Volume 174

NOVEMBER 12, 1960

No. 4213

European Trade

CONFERENCE OF "THE SEVEN"

ENING a three-day conference of e European Free Trade Association untries in London on November 7, Chancellor of the Exchequer (Mr. lwyn Lloyd), said total imports of the ember countries exceeded £7,000 milns and the group included countries th some of the highest living stan-rds in the world. Each now had the portunity of selling goods already th lower tariff barriers and ultimately th none, in a market of 90 million ople. If those opportunities were to grasped business would have to just its sights to wider horizons, and apt its ideas on manufacturing, disbuting, advertising and selling. The airman of the United Kingdom deleion to the Conference (Sir James itchison) suggested a number of asures by which E.F.T.A, might be engthened, among which were the ting up of a development fund to p finance large-scale operations; an erchange of trade missions between mber countries, the setting up of a ntral market research organisation that tariff reductions should be kept line with those of the six European onomic Community countries.

Nielsen Drug Index

INCREASED TURNOVER FIGURES

E average weekly cash sales in retail rmacies on September 1 were:—
ltiples, £366; large independents, 2; medium independents, £168, and all independents, £93. Compared h the corresponding figures for 1959 increased percentage changes e:—Multiples 2.9, and all indepentes 2.7. The total average weekly nover was £5,002,000 which was 5.4 cent. higher than that obtained durthe corresponding period of last. During the period based on Sepber 1, National Health Service paynts as a percentage of total turnover e a little higher than the corresponding period of last year, the multipharmacies received, average, ional Health Service payments of 4, the large independents, £146, the lium independents £91, and the ll independents £56. The multiple rmacies dispensed 32.6 per cent, of National Health Service prescrips, each shop dealing with an averof 1,533 prescriptions per month; respective figures for the indepent pharmaeists being 67.4 per cent. 1,041. The Nielsen report states "although there has been a contins increase in the total volume

accounted for by the pharmaceutical side of the retail chemist business, counter business is still responsible for over 75 per cent. of the total multiple turnover or 68 per cent. of independent."

Graduated Pensions

A CONTRACTING-OUT PROPOSAL

PERSONS employed in the National Health Service and others outside it who are subject to the Health Service superannuation scheme are being informed of the Minister of Health's proposal regarding contracting out of the National Insurance graduated pension scheme. The Minister's intention is that the main groups to be contracted out shall be: All doctors and dentists who are regarded as employed persons for National Insurance purposes: all other male staff earning more than £12 10s. a week or £650 a year for those on an annual rate of pay; and all other female staff earning more than £11 a week or £575 a year. The number employed in the National Health Service who will be affected by the graduated scheme is about 300,000, of whom it is proposed that about 65.000 shall be contracted out. Before coming to his decision the Minister consulted all the staff associations, which appeared to him fairly to represent the interest of employees in the Health Service. The graduated scheme will pot apply at all to persons who are not class I contributors for National

Insurance purposes, for example, general medical and dental practitioners and part-time specialists engaged for less than six sessions a week,

Corfield Memorial Fund

APPLICATIONS FOR GRANIS

APPLICATIONS for grants from the Corfield Memorial Fund should be sent, together with details of the investigation and the place at which it is being carried out, to the Trustees, Corfield Memorial Fund, c/o 17 Bloomsbury Square, W.C.1, not later than December 10. The income from the Fund is used for the purchase of books or apparatus to assist those engaged in research in pharmaceutical chemistry, and especially those who intend to offer the results of their work for presentation at a meeting of the British Pharmaceutical Conference.

Prizes at Portsmouth

PHARMACY DEPARTMENT AWARDS

THE annual prize distribution at the department of pharmacy and physiology, City of Portsmouth College of Technology was held on October 26. Mrs. M. E. Yoward (chairman, Portsmouth Branch of the Pharmaceutical Society) presented the prizes and a vote of thanks was proposed by Mr. E. J. Ramsbottom (president, Portsmouth branch of the British Pharmaceutical Students' Association). Also present



SERVICE WITH A SMILE: Miss Margaret Phillips, daughter of Mr. Norman K. Phillips, M.P.S., East Street Pharmacy, Blandford Forum, Dorset, answers queries of callers at her father's stand at an exhibition organised recently by the Blandford chamber of trade.

were Mr. E. H. Wills (president of the Portsmouth Chemists' Association) and Mr. J. C. Bloomfield (a member of Council of the Pharmaceutical Society). The following students received prizes:—Miss J. A. Sealey and Mr. I. Cordeiro (Boots prizes for all subjects); Mr. R. M. King (Ferryman prize for pharmaceutical chemistry and the Timothy Whites' prize for pharmaceutics); Miss G. A. Thompson (Branch chairman's prize for pharmaceutics); Mr. D. B. Sykes (J. C. Bloomfield's prize for physiology); Miss J. A. Sealey (Association prize in pharmacognosy); Mr. J. B. Carrole (second year, Evans Medical prize) and Mr. P. J. Heath (Pfizer prize).

Causes of Death

1958 STATISTICS REVIEWED

THERE were 4,480 deaths from tuberculosis in 1958, compared with 19,797 in 1949. That reduction affected all sex and age groups except the very oldest. Notifications of tuberculosis declined from over 50,000 in 1949 to 30,000 in 1958. Practically all of the decline occurred in childhood and in early and middle adult life. Those details were published in Part III of the Registrar General's Statistical Review of England and Wales, 1958 (H.M. Stationery) Office, 13s.). Deaths from all forms of cancer totalled 95,804 in 1958; in 1949 they numbered 83,204. Allowing for age changes in the population, there was only a very small increase in the total mortality attributed to cancer. Mortality attributed to cancer of the lung and to leukæmia had increased considerably in both sexes, mainly at the oldest ages. Deaths in 1958 from vascular lesions of the central nervous system (strokes) numbered 76,177. Since 1951 there had been only a small increase in the numbers of deaths assigned to that group, attributable entirely to the increased proportion of elderly people in the population. The number of deaths from pneumonia remained fairly steady in recent years, there were 24,575 in 1958; in 1949 there were 21,030. The higher mortality in 1958 was due to associated epidemic influenza. Deaths ascribed to lobar pneumonia dropped from 4,180 in 1949 to 3,097 in 1958, but deaths due to bronchopneumonia rose from 14,419 in 1949 to 19,312 in 1958. Deaths from bronchitis vary with weather and winter influenza epidemics, and the number of deaths from that cause was therefore higher in 1958 than in most of the previous ten years except 1951.

The Wellcome Trust

GRANTS FOR MEDICAL RESEARCH

THE Wellcome Trustees announce that, during the six months March 1 to August 31, 1960, they made grants exceeding £420,000 to assist medical research. A feature of the benefactions was the awards, totalling £168,000, made in Canada, Jamaica and the U.S.A. Of those overseas grants, £50,000 has been allocated to the Massachusetts General Hospital, Boston, U.S.A., to establish a Wellcome research professorship for ten years, and £17,000 to the University of Pennysylvania, Philadelphia, U.S.A., to extend

the support of the Wellcome associate professorship of research in anæsthesiology for a further three years. Other grants were of £40,000 for McGill University, Montreal, Canada, to extend the support of the Wellcome research department of anæsthesia for a further five years, and £61,000 to the Medical Research Council to construct a laboratory and housing accommodation for an epidemiological research unit in Jamaica, Also to the Medical Research Council went an award of £60,000 to provide five Sir Henry Wellcome re-search travelling fellowships for five years. £50,000 was granted to the Mid-dlesex Hospital Medical School, London University, for a suite of Wellcome research laboratories in the pharmacology department of the new medical school building. Trinity College, Dublin, has received a grant of £16,000 to construct and equip an experimental surgery unit and an animal house. Other major grants were: Oxford University, £16,300 to construct an animal house for the use of workers in the de-partment of the Regius professor of medicine; Post-graduate Medical School. University of London, £6,000 to equip cardiac catheterisation research laboratory in the department of medicine; University of Birmingham, department of biochemistry, £10,000 for equipment to study the nature and functions of the proteins of brain and muscle and St. Mary's Hospital Medi-cal School. University of London, £8,500 for an analytical ultracentrifuge to study the structure of antigens and antibodies. Professor G. A. H. Buttle, School of Pharmacy, London University, received one of a number of grants totalling £21,800 for special research apparatus of various kinds.

Prescribers' Notes

B.P.C., B.N.F. AND BRETYLIUM TOSYLATE

THE August issue of Prescribers' Notes, issued by the Ministry of Health, is mainly devoted to an account of the important features of the British Pharmaceutical Codex, 1959, and the British National Formulary, 1960. Details of the Codex are included "since this is the source of many of the formulæ in the Formulæry." Notes are provided on the various sections in the Codex and the Formulary. In addition there is a reference to the dosage of bretylium tosylate (Darenthin), the manufacturers of which have stated that a minority of patients can be controlled by so low a dose as 100 mgm, and that since the minority cannot be predetermined it was preferable to start all patients on a lower dose than was originally advised, and a 50-mgm tablet had been introduced to facilitate administration. Since two strengths of the potent drug were now available the prescriber should clearly state on prescriptions the strength required. Prescribers' Notes "Failure to do so will inevitably result in inquiries by the pharmacist and probable delay to the patient."

Chemical Poisoning

NEED FOR A LIAISON SERVICE

THERE were 135,000 cases of chemical poisoning in Britain each year, Dr. A. S. Curry (principal scientific officer,

the Forensic Science Laboratory, Harrogate) told members of a symposium organised by the Forensic Science Society at Harrogate on October 29. He said nobody knew how many were vic-tims of deliberately attempted murder, but very few were detected. The number of cups of tea, bottles of milk and other poison specimens brought to him by the police certainly suggested numerous murder attempts. He added that in many poisoning cases, hospitals were handicapped because they did not know which poison was involved. There was no way of telling hospitals what poisons were used in insecticides, furniture cream or other similar items. He suggested a liaison information service so that hospitals would have details of the poison involved when, for example, children who had eaten furniture polish were brought for treatment.

IRISH NEWS

THE REPUBLIC

An Illegal Sale

VETERINARY SURGEON FINED

THE sale of a bottle of Alophen pills resulted in a county Donegal veterinary surgeon being ordered to pay a total of £17 17s, in fines, costs and expenses at Letterkenny District Court on November 3. He was Thomas McClintock, proprietor of the Medical Stores, Ltd., Letterkenny, and the case, which was brought by the Pharmaceutical Society of Ireland, was heard before District Justice Larkin. An inspector of the Society gave evidence of having purchased the pills, price 2s. 9d., from Mr. McClintock. Mr. McClintock told the Court that he had found difficulty in securing the services of a pharmaceutical chemist to manage his pharmacy. The inspector had called in the interval between the departure of one manager and the arrival of a new one. As he (McClintock) was a veterinary surgeon he was accustomed to handling poisons. The pills in the case were a common household medicine, Mr. John Gaynor (solicitor fo the Society) submitted that if Mr. McClintock had intended to observe the law he would have sacrificed 2s. 9d. sale. The defendant had beed in business thirty-three years, and, a a professional man, knew that he han no more legal right to sell a poiso than he (Mr. Gaynor) had, The Justic



PHARMACISTS' ACHIEVEMENTS: Mr. Brei dan O'Connor, M.P.S.I., and Mr. Pet Needham, M.P.S.I., being congratulated by M J. G. Coleman (registrar, Pharmaceutical Socie of Ireland) on being conferred the B.Conn degree by the National University of Irelan They are the first Irish chemists to obtain it degree. Mr. Needham is shortly to become trat adviser to the Irish Exports Promotion Boar found the case proved and imposed a fine of £1; ordered the defendant to pay £10 2s, expenses, and allowed £6 15s, costs.

Drug Costs

A QUESTION IN THE DAIL

MR. Richard Barry asked the Minister for Industry and Commerce in the Dail on October 26 if his attention had been drawn to reports that drugs and medicines were costing more in the State than in either Britain or the six counties, and if so, what action he proposed to take in the matter, Mr. Lynch, replying, said "My attention has been drawn to the report referred to. While, as the deputy will be aware, statutory control is not exercised over the prices of drugs and medicines, I have had inquiries made in the matter from representatives in the trade. These inquiries are still proceeding, but I may say that the results so far tend to show that with the exception of a limited number of preparations, prices here are approximately the same as those operating in the six counties and in Britain. I am having inquiries continued as to the reason for the divergence in prices in the exceptional instances referred to."

THE NORTH

Poisons Law Changes

LOCAL MEETINGS OF INSTRUCTION

A SERIES of meetings at which pharmacists will have the opportunity of hearing Mr. J. N. Patterson, M.P.S.N.I. (pharmaceutical inspector, Ministry of Home Affairs) outline "Recent Changes in Poisons Legislation" has been arranged as follows:—

Tuesday, November 15: PORTADOWN

Tuesday, November 15: PORTADOWN Wednesday, November 16: COLERAINE Monday, November 21: NEWRY Tuesday, November 22: LONDON-DERRY

Monday, November 28: OMAGH.

NEWS IN BRIEF

THE November meeting of the East Kent Branch of the Pharmaceutical Society has had to be cancelled.

LORD Moynihan has been appointed to fill the vacant chairmanship of the North-west Metropolitan Regional Hospital board.

An "Employers Guide" to the new graduated contribution and retirement pension scheme is being issued during January, 1961, by the Ministry of Pensions and National Insurance.

THE Home Secretary has restored to Dr. Walter Allan Todd, authorities under the Dangerous Drugs Act, 1951, to possess, supply or prescribe Dangerous Drugs. His authorities were withdrawn during August, 1958, when his address was 124 Landor Road, Stockwell, London, S.W.9.

THE dyestuffs committee of the Association of British Chemical Manufacturers have appointed Mr. Harold Blackshaw, now retired after forty years' service with Imperial Chemical Industries, Ltd. (dyestuffs division) and its predecessors, to succeed Mr. F. Scholefield as technical dyestuffs adviser.

TOPICAL REFLECTIONS

By Xrayser

Containers

Several factors have contributed to the desirability of an investigation into and discussion on the subject of the most suitable container in which to dispense tablets. There is the vast increase in modern medicine of the tablet itself, with its many advantages in accuracy of dosage and ease in administration. (No question of the capacity of the household teaspoon or tablespoon enters into considerations of the tablet, though it is not in the power of either manufacturer or pharmacist to control the number of tablets taken. The direction "two or three as required" is open to gigantic misconception.) In addition to the popularity of the tablet as a form of medication—inescapable because of manufacturing tendencies—the whole question has become involved in a series of "pull devil, pull baker" actions on the part of Government and contractors in the National Health Service. The container allowance has been the source of some of the less edifying aspects of the pharmaceutical service. I saw, in its early days, poor containers used that were a direct invitation to an economy-seeking Ministry to cut the amount originally allocated for containers. I am not for one moment suggesting that that was general, but a department looking for economies in any direction does not naturally consider the highest standards. And, of course, any reduction in allowance is inevitably met by a general reduction in standards—a normal reaction on the part of those who had been using the best quality and who had felt resentment at the reduced allowance. Relations between Ministry and contractor have not been such as to contribute to a raising of the standards. Economy and resentment are not a good foundation for maximum quality.

The ideal

In the meeting referred to above, Mr. Jolly said that the obvious choice of container was one made of glass fitted with a suitable closure (p. 576). That is both the obvious and the ideal, for it has many advantages. Such glass containers are, as Mr. Jolly said, expensive. It is possible, as was suggested, for the pharmacist to exercise discrimination in his choice of container, based upon keeping quality of the tablets, duration of the course of treatment and such contributory factors as whether it is necessary to carry the medicine around, for one reason or another, and of home safety where there are children. The real solution would be to increase the container allowance to a point at which it was economically sufficient, and to insist by regulation on the use of a standard, good container. But a Government department, faced with such a solution, would be unlikely to resolve it with a simple fraction of a penny. That simple fraction would be multiplied by the number of containers, and the frightening total produced would act as a deterrent.

The doctor's dilemma

If the doctor is to exhibit the qualities of mathematical assessment and prescience expected of him in the National Health Service, he may feel that his recent increase in remuneration is insufficient to meet the expenditure of nervous energy required of him. In the report of the activities of the Committee of Public Accounts (pp. 562-63) reference is made to the finding of the Hinchliffe Committee to the effect that some waste was involved in the tendency to provide larger quantities per prescription, particularly after the imposition of the separate one shilling charge. Had any estimate been made of the financial effect? Dame Enid Russell-Smith (Deputy Secretary, Ministry of Health) replied that they had not been able to isolate the waste; that they did not know how far the quantities were needed for the treatment of the condition for which they were prescribed; that it was economical in chronic cases to prescribe large quantities, because that diminished the amount paid to the pharmacist in dispensing fees; and that there was waste only when the quantity was excessive for the illness. A truly formidable list for the doctor to chew before putting pen to paper.

NEW PRODUCTS AND PACKS

Multi-vitamin Elixir. — Vitamins, Ltd., 23 Upper Mall, London, W.6, announce the introduction of Juvel elixir, two teaspoonfuls of which are the equivalent of one Juvel (multi-vitamin) tablet. The pack is a bottle of 6 oz.

Antitussive and Expectorant Linctus.—F.B.A. Pharmaceuticals, Ltd., 37 Bedford Row, London, W.C.1, are marketing on December 1 a new product, Detigon linctus, the active ingredients of which are 1-o-chlorophenyl-3-dimethylamino-1-phenylpropan-1-ol potassium guanicol sulphonate. The pack is a 4-oz. bottle.

Tablets of Polyaminostyrene.—Duncan, Flockhart & Co., Ltd., 16 Wheatfield Road, Edinburgh, 11, announce the introduction of a new speciality, Transid brand of polyaminostyrene, in carton of 100 foil-packed tablets each of 0.3 gm. Polyaminostyrene is a nonalkaline ion-exchange resin designed to neutralise excess acid in conditions of hyperacidity.

A Fungicidal and Antibacterial Agent. — Calmic Ltd., Crewe, Ches, have launched a new speciality S7, described as a non-toxic, non-irritant substance possessing powerful fungicidal and antibacterial properties against a wide range of pathogens associated with mycotic and bacterial infections of the skin and mucous membranes. S7 is available as a jelly in 15-gm. tube; as a cream in 30-gm. tube; and as powder in 15-gm. and 75-gm. insufflators.

Isoniazid in Granule. — Smith & Nephew Pharmaceuticals, Ltd., Welwyn Garden City, Herts, announce that they have succeeded in incorporating isoniazid into their fat-protected PAS granule, Pasade. For the first time, therefore, the two standard anti-tuberculous drugs PAS and isoniazid are available in granule form. Known as Inapasade, it is available in heat-sealed packets of sixty and 120 and a bulk pack of 1,000 gm. of loose granules. The daily dose provides 12 gm. of PAS plus 300 mgm. of isoniazid.

Liquid Cough Suppressant. — Riker Laboratories, Ltd., Morley Street, Loughborough, Leics, are marketing a new liquid cough suppressant, Pholtex, in which pholcodine is associated with the antihistamine phenyltoloxamine, the two ingredients being bonded to an ion-exchange resin to give prolonged action. The vehicle is pleasantly flavoured, honey coloured and thixotropic, and a single teaspoonful of the product twice daily is understood to give twenty-four hours' relief. The packs are a 2-oz. and a 20-oz. (dispensing) bottles.

Tablets Against the Common Cold.—Rinurel tablets, newly launched by William R. Warner & Co., Ltd., Eastleigh, Hants, are offered as a means of treating the common cold symptomatically. Each tablet contains 150 mgm. each of paracetamol and phenacetin, 25 mgm. of phenylpropanolamine hydrochloride and 22 mgm. of phenyltoloxamine dihydrogen citrate. The formulation is claimed to provide in a single tablet the greatest possible relief from the pain of sinus headache and the discomfort of the common cold.

Rinurel affords prompt relief without rebound congestion, gastric disturbance or constipation. The packs are containers of thirty and 250 tablets.

Reserpine with Bendrofluazide. — Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham, announce the introduction of a new speciality, Abicol tablets, a combination of reserpine and bendrofluazide for treating hypertension. Abicol is claimed to produce a smooth and sustained hypotensive effect, with a negligible risk of the side effects characteristic of reserpine alone in normal doses. The tablets may be used alone in mild and moderately severe cases or in conjunction with ganglion-blocking agents in severe and malignant cases. The dose of the ganglion-blocking agent, if used, is less than normally needed, thus reducing its side-effects. Abicol is understood to have also a mild sedative and diuretic action when nervous tension and/or cedema complicate the hypertension. The packs are containers of 100 and 500 scored tablets each containing 0-15 mgm. of reserpine and 2-5 mgm. of bendrofluazide.

A New Approach to Chilblains. — A new treatment for chilblains and chapped hands marketed under the name Soothe by Universal Laborator-



ies, Ltd., 137 Sandgate Road, Folkestone, Kent, has as its active ingredient ascorbyl palmitate. Chemically related to vitamin C, the compound has shown encouraging results in clinical trials on chilblain sufferers. The trials demonstrated that Soothe was also effective in treating chapped hands.

A Stainless, Greaseless Variant.—Bengue & Co., Ltd., Mount Pleasant, Wembley, Middlesex, announce the introduction of "new" Bengue's balsam. The preparation presents the established medicaments methyl salicylate and menthol in a stainless and greasefree base. The product is quickly absorbed when rubbed into the skin, leaving, it is understood, a dry, greasefree surface that does not stain fabrics. The product is thus specially useful for day-time application but the original Bengue's balsam continues to be available. Both preparations are in eye-catching packs, "New" Bengue's balsam is in 1-oz, and 2-oz, tubes.

"Push-button" Inhaler.—Currently the subject of a test campaign in the Lancashire/Cheshire area, a new product Respiran, produced by Ephazone, Ltd., 59 Brook Street, London, W.I, is designed to provide relief to sufferers from bronchial asthma, bronchitis and hay fever. Respiran is a push-button inhaler with a valve that releases a measured constant dose. The medicated content comprises isoprenaline sulphate, 0-4 per cent., in suspension in an inert aerosol propellent, each dose containing 0-16 mgm. of the drug. Respiran, which is being advertised to the public, is available through wholesalers or from the principal distributors, Keldon, Ltd., Wadsworth Road, Perivale, Greenford, Middlesex.

Creamy Compact in Golden Case.— The new Florentine golden powder compact of Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, is also



obtainable in a luxury golden case, in addition to the standard pale blue Feather Finish compact, The case matches the new Florentine lipstick case.

Assorted Bath Cubes. — Andre Philippe, Ltd., 71 Gowan Avenue, London, S.W.6, are marketing a pack containing an assortment of bath cubes (bouquet, lavender and gardenia), each labelled to match the perfume and the whole wrapped in transparent film.

Hair Dryer.—Available in the "Luxury Life" series of household electrical goods of S. N. Bridges & Co., Ltd. York Road, London, S.W.11, is a hair



dryer in pink, lilac and cream tha may be used in the hand, stood on a table, or hung on a wall without the need for an extra stand. Double-capacity Soda Syphon.—The Globemaster soda water syphon marketed by the Sparklets department of British Oxygen Co., Ltd., Bridgewater



House, St. James's, London, S.W.1, is described as "new and radically designed." Spherical in shape, the Globemaster holds twice as much as the standard refillable Sparklet syphon. The Globemaster makes fourteen or fifteen glasses of soda squash; it is filled and charged in the same way as the standard refillable Sparklets syphons, but with two instead of one gas-filled bulbs. Despite its larger capacity the Globemaster is shorter than the standard model (only 10 in. high) making it ideal for most refrigerators. It weighs 1½ lb. when empty. Supplied with a chromium drip tray and six Sparklets bulbs in a colourful pack, the syphon is available in ruby or old-gold finish.

Ice Bowl. — Insulex, Ltd., 67 Westbourne Grove, London, W.2, announce the introduction of the Insulex ice bowl for which they claim an excep-



tional insulation (not vacuum) performance as a result of development work in conjunction with Monsanto Chemicals, Ltd., who have produced and are supplying a special grade of silica powder that is used as an interlining, hermetically sealed between an inner and an outer bowl of toughened polystyrene. The bowl is individually packed in single colour-printed corrugated carton. It has a capacity of 1 quart.

TRADE NOTES

Withdrawn. — Cilag Lloyd, Ltd., 11 Waterloo Place, London, S.W.1, have discontinued issuing Ciloprine.

Now Taxable.—Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, announce that their product Aidex No. C153 in 1-oz. tube is now subject to purchase tax.

Bri-nylon Support Stockings. — Sole pharmaceutical distributors of the Pretty Polly fully-fashioned Bri-nylon support stockings now available to Drug Tariff specification are Evans Medical Ltd., Speke, Liverpool, 24.

Northern Ireland Agents. — R. J. Groves & Son, 54 Great Victoria Street, Belfast, have been appointed sole agents in Northern Ireland of Radiol Chemicals, Ltd., 78 Upper Richmond Road, London, S.W.15. Chemists in the area are asked to send all orders to Messrs, Groves in future,

Sole U.K. Agents.—Crème Simon (Distributors), Ltd., 31A Bedford Street, London, W.C.2 are the sole agents in the United Kingdom for Myrurgia. S.A., Barcelona, Spain, manufacturers of Maja soap, "the aristocrat of Spanish soaps." The soaps are available in box of three bath-size or three large toilet tablets, of eighteen small toilet tablets in display box, and of three guest tablets per box.

A Point Cleared Up.—William R. Warner & Co., Ltd., Eastleigh, Hants, report some confusion in the trade concerning the description of their speciality Ecomytrin cream. Originally the product was launched as Ecomytrin ointment, the name being later changed to Ecomytrin cream as a more accurate description of the base. There has been no change in the constitution of the product, which is now known as Ecomytrin cream only.

On Consultant's Recommendation Only.—Geigy Pharmaceutical Co., Ltd., Roundthorn Estate, Wythenshawe, Manchester. 23, issue a warning that their speciality Tanderil was released to the trade only in order that any recommendations from hospital consultants might be met with a minimum delay and inconvenience. They point out that the product is still undergoing widespread clinical assessment in many hospitals in Britain and should not be used outside hospitals unless it has been recommended or prescribed by a consultant.

Bonus Offers

ROBERTS CHEMISTS (BOND STREET). LTD., 76 New Bond Street, London, W.1. Kisby dry-shampoo powder. Thirteen to doz.

WRIGHT, LAYMAN & UMNEY, LTD., 42 Southwark Street, London, S.E.I. Wright's coal-tar shampoo in sachet. Six free shampoos with each 3-doz. unit. Till December 31.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER, LTD., Dagenham, Essex. Planidets, antiseptic/analgesic lozenges. Thirteen to doz.

INFORMATION WANTED

The Editor would appreciate information about the following:

P.A.C.—Vitalin
Phosfon-D technical grade dust



A NEW HEADQUARTERS: Office trontage of the new headquarters building of Mayborn Products, Ltd., and Dylon International, Ltd., at 139 Sydenham Road, London, S.E.26.

WARBLE FLY PEST

Eradication methods suggested

THE possibility of eradicating warble fly in Britain by giving the product Etrolene orally in autumn and winter was discussed at a conference organised by the makers (Dow Agrochemicals, Ltd.) in London, on October 28. Mr. F. G. Brown (the company's veterinary adviser) described trials with Etrolene for warble-fly control in Great Britain and the Republic of Ire-Their findings confirmed those of American workers who had obtained 85-100 per cent, control of the parasite. In one trial in Canada warble fly had been virtually wiped out. Details were also given of complementary trials involving a cattle backrubber impregnated with an insecticide -Nankor 44E—for preventing gadding during the fly season. animals, Mr. Brown said, showed no tendency to gad and were content and restful. On an adjoining farm the untreated cattle gadded frequently.

When Etrolene was first marketed in Britain (see C. & D., September 19, 1959, p. 195), the Ministry of Agriculture had advised against its use for dairy cattle on the grounds of possible residues of the drug in milk. The speaker described studies of the excretion of Etrolene in the milk of lactating cows following oral dosing. showed, he said, that after tweny-four hours, the concentration of the drug in the milk had fallen to less than 0.5 parts per million and the milk would be perfectly safe for human consumption. Milk from treated cows had been fed to both calves and pigs, and the animals showed no signs of toxicity, maintaining normal health and growth rate.

DR. W. E. RIPPER (Dow Agrochemicals, Ltd.), said that total eradication was now possible. He suggested that it could best be ensured by the Government's deciding to increase the support given from public funds, for treated animals, and at the same time reducing it by an equal amount for untreated animals.

COMPANY NEWS

Previous year's figures in parentheses

ROLLS RAZOR, LTD.—Group net loss for 1959 was £31,599 (against loss £83,064)

RECKITT & COLMAN HOLD-INGS, LTD.—Interim dividend is 5 per cent. on the ordinary capital (unchanged).

SANITAS TRUST, LTD.-For the year ending March 31 the interim ordinary dividend is 15 per cent., payable on the capital as increased by a three-for-ten scrip issue. (For 1959-60 an interim of 5 per cent, was paid on the smaller capital.) The directors state that the increase is to bring the interim more into line with the final dividend. Last year's final was 40 per cent, also on the smaller capital.

HORLICKS, LTD.—Group net profit for year ended March 31 was £579,323 (£530,750) and dividend 30 per cent. (25 per cent.), as previously stated (C. & D., October 15, p. 464). Sales prospects remain favourable but margins are decreasing, and Sir James Horlick (chairman) says he will not be dissatisfied if final results for the current year compare reasonably with those of previous year. Sales by phar-maceutical division during the year under review advanced considerably and the range of products increased.

FISONS, LTD. - Group sales increased by 10 per cent.—from £46.69 millions to £51.34 millions—in the year to June 30. Group profits, before tax, increased by £868,000 to £4.51 millions, but it is pointed out that the figures are not comparable as the £78,600 past

service pension contribution this time is charged against last year's provision, and depreciation provision is some £380,000 heavier following the 1959 revaluation of assets and the new method of calculation. On a comparable basis, the trading profit increase was about £1.17 millions. Following the policy of steady support for a relatively large research effort, the chairman (Sir Clavering Fison) states that well over £1 million was spent last year on research and technical services. The same rate of profit is not expected in the current year but no reduction in the dividend is anticipated. Sir Clavering adds, however, that projections for subsequent years show a resumption of the strong upward trend and "my experience is that our forecasts have on the whole been rather conservative than the reverse." On the unsuccessful takeover bid made by the company for The British Drug Houses, Ltd., the chairman states that Messrs. B.D.H. would have been a desirable acquisition but it was not in any way essential to Fison's development in the pharmaceutical industry.

New Companies

P.C.=Private Company; R.O.=Registered Office

MESSENGER LTD. (P.C.).—Capital £1,000. To carry on the business of dealers in drugs, etc. Directors: William H. Messenger and Kathleen M. Messenger. R.O.: 52 Newborough, Scarborough.

SLOPER (CHEMISTS), LEWIS LTD. (P.C.).—Capital £1,000. To carry on the business of retail and wholesale chemists, druggists, etc. Subscribers: Cornelius Daly and Bernard R. Jayson. M.P.S. (director, Albert Butcher, Ltd.), Elsie Horn, Peter J. Horn and Michael R. Horn. R.O.: 543 Wilmslow Road. Manchester, 20,

Oxley, Wolverhampton.

BUSINESS CHANGES

The first directors are to be appointed by the subscribers. R.O.: 32 Old Burlington Street, London, W.1.

OXLEY PHARMACY, LTD. (P.C.).

Capital £2,000. To carry on the busi-

ness of chemists, etc. Directors: Regin-

ald T. G. Rylance and Lilian M. Rylance. R.O.: 468 Stratford Road,

J. A. HORN (CHEMISTS), LTD. (P.C.).—Capital £500. To carry on the

business of chemists, druggists, opti-cians, etc. Directors: John A. Horn,

RIMMEL, LTD., have removed to 62 Baker Street, London, W.1 (telephone: Hunter 4121).

LEWIS & BURROWS, LTD., have closed their branch at 175 Kentish Town Road, London, N.W.1.

BIRFIELD, LTD., have removed to 20 Hill Street, London, W.1 (telephone: Grosvenor 7090).

BOOTS, LTD., have opened new premises at 102 Notting Hill Gate. London, W.2, and have closed their premises opposite.

J. HUNTER & SON, chemists, 17 Bank Street, Carlisle, Cumberland, are to close down the business in December. The pharmacy has been in existence for seventy years.

PERSONALITIES

MR. R. L. JONES, who is vice-president manufacturing, Colgate Palmolive, Ltd., Toronto, was elected presi-

ager (administration) of Smith & Nephew Research, Ltd., Hunsdon, Herts, was presented with a cheque and certificate on September 30 to mark his twenty-five years' service with the Smith & Nephew group of companies. In his earlier years with T. J. Smith & Nephew, Ltd., Hull, he was concerned with the introduction and development of products in the surgi-cal bandages and dressings fields. With the formation of Smith & Nephew Re-search, Ltd., in 1953, he took over the responsibility of setting up the technology division in that company and more recently transferred from that division to lead the company's administration.

dent of the Canadian Manufacturers of Chemical Specialties Association at its third annual meeting and conference held in Montreal recently. MR. D. W. BURLEY, M.A., B.Sc. (Oxon.), F.R.I.C., who is research man-

DEATHS

BAGGESGAARD-RASMUSSEN. -On October 27, Professor Thorning Baggesgaard-Rasmussen, professor of organic chemistry at the Royal Danish School of Pharmacy, Copenhagen. He was for many years a member of the Danish Pharmacopeia Commission and the Scandinavian Pharmacopæia Council, and was the author of a text book of pharmaceutical chemistry. Since 1937 he has collaborated in the work on the Pharmacopæia, both International under the League of Nations and later

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

ABILL to amend the Patents Act, 1949, was introduced in the House of Lords by the Earl of Dundee on November 1 and in the House of Commons on November 7. MR, M. McLaren asked the President of the Board of Trade when he proposed to raise the fees for patents and trade marks to cover the Patent Office costs. Mr. R. MAUDLING (President, Board of Trade) stated in a written reply on November 7 that he intended to make an order increasing trade-mark fees but an amendment of the Patent Act would be necessary before the application fees for patents could be increased, and "a Bill has been introduced in another place.

Weights and Measures

THE EARL OF DUNDEE introduced the Weights and Measures Bill (see p. 600) in the House of Lords on November 1.

Plant Breeders' Rights

MR. J. A. FARR, asked the Minister of Agriculture on November 7 if he was aware that there was a tendency for some plant breeders and seed breeders to withhold new varieties from the market until they could avail themselves of the benefits of new legislation.

MR. CHRISTOPHER SOAMES (Minister of Agriculture) said the organisations affected by the Engholm Committee on Plant Breeders' Rights had been invi-

ted to submit their views, and although he was "anxious to get on with it as soon as possible," it was right to take into account the views of all interests.

Whitley Councils

Mr. Carr asked the Minister of Health a number of questions concerning functional Whitley Councils within the National Health Service.

MR. ENOCH POWELL (Minister of Health) in a series of written answers on November 7 stated there were nine councils which between them had twenty-seven standing subcommittees, and during the last twelve months they had been in session "at a rough esti-mate 250 hours in total." The total membership of the councils was 453, but a number of persons were members of more than one council. During the year there had been twenty-two meetings of the councils and eighty-three meetings of subcommittees.

Mr. B. Janner was told by the President of the Board of Trade, in a written answer on November 8 that the German manufacturers had agreed to raise their prices of starch to avoid anti-dumping legislation. The Board of Trade was therefore taking no further action on the application for the introduction of such duty on starches imported from West Germany.

hrough the World Health Organisa-On a number of occasions he served as vice-chairman of the International Pharmacopæia, and he was also a member of the World Health Organisation subcommitee on nonproprietary names.

BAXTER — On October 18, Mr. John Baxter, M.P.S., 48 St. Lawrence Ferrace, London, W.10, aged sixty-

BELL.-Recently, Mr. J. Wooler Bell, for many years a representative of Ayrton, Saunders & Co., Ltd., Liverpool. Mr. Bell joined the company in

1912 as representative in the Sheffield area of England, and retired on his seventieth birthday on September 16, 1955. On his retirement, Mr. Bell was given a silver salver by "Sheffield and district pharmaccutical friends " (C. & D., September 24, 1955, p. 333).

BROWN.—On October 23, Mr. Robert Harkness Brown, M.P.S., 239 Church Road, Redfield, Bristol, 5, Glos. Mr. Brown qualified in 1921.

GARTH.—On October 25, Mr. William Stanley Garth, M.P.S., 86 Astley Street, Tyldesley, nr. Manchester. Mr. Garth qualified in 1930.

HARRISON.—On October 16, Mr. 9 Thomas Harrison, M.P.S., 9 Street, Tadcaster, Yorkshire. High Harrison qualified in 1905.

HEYWOOD.—On October 13, Mr. Frank Cecil Heywood, M.P.S., 24 High Street, Ironbridge, Shropshire. Mr. Heywood qualified in 1921.

REED.-On October 26, Mr. Percy Stanley Reed, M.P.S., 410 Green Lanes, London, N.13, aged seventy-eight.

SELBY.—On October 15, Mr. Joseph Selby, M.P.S., Reinach, Yarm Road, Eaglescliffe, nr. Stockton-on-Tecs, co. Durham. Mr. Selby qualified in 1892.

"Vital Statistics" of N.H.S.

DRUG COST TRENDS SIGNPOSTED TO SOUTH-EASTERN FEDERATION

GUEST speaker on October 26 at the innual dinner of the South-eastern Federation of Pharmacists, held this year at Hove, was MISS C. MOZLEY-STARK, F.P.S. (a pharmaceutical adviser at the Ministry of Health) Health n the Ministry of Health). Her subject was "Drug Tariff Facts and Figures." The pattern of the meeting was one that has become characteristic of the Federation-an informal dinner, then an interval, and finally an address followed by questions. Mr. H. B. OLVER, Brighton, who presided, welcomed members from Brighton and Hove, Eastbourne, Hastings, Tunbridge Wells and especially from Worthing, whose representatives were "returning to the fold." Worthing members, he said, would be hosts to the Federation in 1961.

Three Times Greater

Miss Mozley-Stark said that prescriptions dispensed under the National Health Service today were three times as numerous as in 1947. In the first year of N.H.S. the average cost per prescription had been 3s. After eight years that figure had doubled and currently it was little short of 7s. 6d. Since 1955 the average dispensing fee had been 1s. 2½d., and the oncost payment had now reached a similar figure. Some contractors were inclined to bracket fee and oncost as one amount, but the Ministry acknowledged those two elements of remuneration as distinctive. However, since 1955 prescripper cent., and prescription numbers had decreased by about 25 per cent., and prescription numbers had decreased by about 5 per cent., and it could be said that the net result to the pharmacist was a greater return to meet his overheads. In 1959 an In 1959 an epidemic had put prescription numbers up, but in 1960, without an epidemic, they were going even higher. Was to be inferred that, faced now with so many specific drugs, doctors were experimenting to find the right one for many a patient, and in doing so prescribing quantities of each that proved to be excessive?

Current figures seemed to show, said the speaker, that N.H.S. accounted for 33 per cent, of the chemist's turnover. That being so, the fact that there had been no repercussions from the remodelled Drug Tariff was rather sur-prising. The Tariff had been rewritten in "plain" English, Proprietaries were

included for the first time, and in fact had ousted galenicals from their position of priority. That was but rightful since 50 per cent, of all prescriptions required the supply of proprietary products, and their cost now represented 85 per cent, of the whole ingredient

A section of the book was given over to those proprietaries for which payment was based on an "agreed pack," there being 109 products in the current list. However, only half of all orders for proprietaries were for products in that list. To provide a basis for the pricing of the other half it was hoped soon to include in the Tariff a scheme that was already known to chemists. On dispensing each such prescription they would be required to endorse the size of pack used, and that depended for cach contractor on his own demand for each product. Pricing bureaux would examine demand against endorsement for a chemist's more popularly called-for items.

Galenicals

Galenicals, while still representing 37 per cent. of items prescribed, accounted for only 10 per cent. of the cost. Why then was so much attention being paid to them in the Tariff. Again, because the Tariff prices were intended to be reimbursement figures, free of "hidden profits," the prices actually paid by chemists had determined rates that chemists had determined rates that went into the Drug Tariff. Today, said Miss Mozley-Stark, 50 per cent, of all proprietaries (70 per cent. of the cost) were for tablets. At the time the prescription charge had been changed from one shilling per form to one shilling per prescription, the number of tablets ordered per prescription had gone up by 10 per cent. on a reduced number of prescriptions. Today the number of prescriptions was half-way back to its previous level, but the level of tablets ordered had not diminished. Moreover, quantities of 100. sixty or fifty tablets per prescription comprised nearly half of all tablet orders. Why that jump in 1956, and why had it remained? The speaker did not seem satisfied she had found the answer to those conundrums. Of the container allowance she said that the Ministry was watching with great in-terest the efforts currently being made to identify "a suitable container" for

dispensed tablets; the question the Ministry continued to ask was "What are you actually using?

Before opening the meeting to questions, THE CHAIRMAN revealed that he was one of "the unlucky ones" who had been called upon to fill in the famous Tariff prices questionnaire of 1959. He recounted how he had been asked the weight of twenty formaldehyde lozenges supplied on prescription. In giving the answer, he had added, for full measure, the number of such lozenges to the lb. (both figures found by actual weighing or count) and he speculated whether such information was filed by the Ministry for reference. Mr. E. J. W. CUER, Worthing, spoke of the contractors' growing problem of the "mortuary" of drugs left useless on the dispensary shelves, but MISS MOZLEY-STARK pointed out that allowance was made at each revision in the terms, as agreed between the Ministry and the Central N.H.S. (Chemist Contractors) Committee, for losses due to that cause. Another questioner hinted that doctors called to account for over-the-average prescribing costs were prescribing additional and unnecessary low-cost items to patients in order to "dilute" the average cost figure.

"Forthright Answers"

A number of other controversial matters, raised by Miss L. L. Peck, Hove, Mr. S. F. George, Portslade, Mr. R. R. Gunn, Peacehaven, and Mr. R. Goldberg, Brighton, drew from Miss Mozley-Stark—as Mr. D. W. Hudson pointed out in proposing a vote of thanks to her—"forthright" answers. Cordial relations between their own profession and the Ministry had contributed largely, said Mr. Hudson, to the success of a health service that was looked at by the rest of the world more in admiration than in criticism. Members of the Society should always be conscious of the calibre of their own colleagues within the Ministry: Federation members in particular could recall with satisfaction that Miss Mozley-Stark had been one of the ori-ginal members of the Brighton 1942 Committee. Mr. S. Howard (secretary of the Federation), who gracefully seconded the vote of thanks, also called on Mrs. H. B. Olver, as the wife of the chairman, to present the speaker with a souvenir of her visit to Brighton.

WEIGHTS AND MEASURES BILL

Eventual doom for the Apothecaries' system

CHANGEOVER from the apothecaries' to the metric system of weights and measures "for the purposes of transactions in drugs" is foreshadowed in the Weights and Measures Bill published on November 4. Five years after the approval of the Bill by Parliament (later if the Board of Trade so decides) the ounce apothecary, drachm, scruple, fluid drachm and minim will not be officially recognised or allowed to be used "in trade."

Extended Scope

The Weights and Measures Bill is intended to replace existing legislation relating to weights and measures and to extend the scope of the present law. The first three parts of the Bill (there are six in all) deal respectively with the basic units of measurement and the physical standards which represent them; with the units of measurements and the weighing and measuring equipment that may be used for trade; and with the provision of public weighing and measuring equipment by local authorities. Part IV regulates transactions in a wide range of goods. Part V provides for the administration and enforcement of the law. Part VI deals with miscellaneous and general matters. The Bill provides that the yard, metre, pound and kilogram are to be the basic units in the United Kingdom, but defines the yard and pound by reference to the metre and kilogram instead of by reference to the Imperial standards.

There is to be established a Commission on Units and Standards of Measurement to advise the Board on matters relating to those aspects.

Part II of the Bill is concerned with the use for trade of units of measurements and of weighing and measuring equipment. The expression "use for trade" is defined in clause 9 as:
"... use in Great Britain for or in "use for

connection with any transaction for-

(a) the transferring or rendering of money or money's worth in consideration of money or money's worth; or

(b) the making of payment in respect of any toll or duty;

being a transaction in connection with which there is made a determination or declaration of quantity in terms of measurement of length, area, volume, capacity or weight; or by number, other than a determination or declaration for the purposes only of subsequent transactions outside Great Britain.

The units of measurement, weights and measures that may be used in trade are listed in the Third Schedule. Except in connection with the dispensing of drugs, it is to be illegal to use for trade any abbreviation of or symbol for a unit of measurement, capacity or unit of measurement, weight other than the abbreviations in the Bill's Fourth Schedule which include:—yd = yard; ft = foot; in = inch; oz. apoth = ounce apothecaries; fl. dr = fluid drachm; min = minim; kg = kilogram; mg = milligram; 1 = litre; dl = decilitre; cl = centilitre; ml = millilitre. The use, for trade, of the ounce apothecaries, drachm, scruple,

fluid drachm or minim is to be restricted to transactions in drugs, which may only be carried out using those or metric units measures or weights. Weighing and measuring equipment used for trade must be approved and must bear an undefaced stamp indicating that it has been passed for use, It will be illegal for any person to use for trade, or to have in his possession for use for trade, any weighing or measuring equipment that is false or unjust.

If any weighing or measuring equipment is found in the possession of any person carrying on trade, or on premiscs that are used for trade, then that person, in the occupation of the premises, will be deemed to have the equipment in his possession for use in trade, unless the contrary is proved. Weighing equipment for use for the weighing of persons is not to come within this section until a date appointed by the

Board of Trade.

Clauses 12 and 13 provide revised arrangements for the approval of types of weighing and measuring equipment used for trade. Equipment may be examined by the Board of Trade for its suitability for use for trade rather than merely for whether it will facilitate fraud. The Board of Trade may arrange trial periods of use before approving equipment, and dispense with examinations of individual patterns by the issue of group specifications. The Board will also consider appeals from the decisions of local authority inspectors in individual cases.

Board's Powers

The Board of Trade is given power to control transactions in particular goods by regulations that ensure such goods:

(a) are sold only by quantity expressed

in the manner specified; or

(b) are carried for reward only in pursuance of an agreement made by reference to quantity expressed as in (a); or

(c) are prepacked, or are prepacked in specified quantities, or are otherwise made up in a container for sale, only if the container is marked with an indication of quantity expressed as in (a);

(d) are sold, or are prepacked, or are otherwise made up in containers for sale, or are made for sale, only in such quantities as may be specified; or

(e) may be sold by gross weight if, or only if, the container does not exceed such weight as may be so specified, or

(f) are not sold without the quantity sold expressed as in (a) being made known to the buyer at or before the delivery of the goods to him; or

(g) when offered for sale, or when in course of delivery to the buyer, or when carried for reward, have associated therewith a document containing a statement of the quantity of the goods expressed in such manner, and a statement of such other particulars, if any as may be so specified; or

(h) when carried in a road vehicle along a highway are accompanied by a document containing such particulars determined in such a manner as may b so specified as to the weight of th vehicle and its load apart from any sucl goods.

Exemptions from the regulations are provided for (1) goods specially pre packed for Her Majesty's forces; (2 on any sale of goods when the buye gives notice in writing to the seller be fore the sale is completed that the goods are being bought—(a) for expor outside Great Britain or (b) for use a stores in a ship or aircraft whose destination is outside the United Kingdon

and the Isle of Man.

Clause 22 introduces the fifth, sixth seventh, eighth and ninth schedules which prescribe in detail the requirements to be observed in relation to the sale, or in some cases, the carriage of particular goods. Those requirements extend to a wider range of goods than is covered under existing legislation. and the requirements themselves are more varied. For instance, some goods may be sold by weight or measure at the option of the seller. In some cases the requirement is not to sell by weight or to indicate the quantity on the container of goods made up for retail sale, but to make the quantity known to the purchaser.

The Bill sets out certain circumstances in which the quantity involved in a transaction must be stated in writing, as when liquid goods are sold by capacity measurement and the quantity sold is measured at the premises of the buyer but not in his presence. There is also provision for the pleading of warranty as a defence in any proceedings taken under the Act. It is also to be a defence if a person charged is able to prove the offence was due to a mistake or an accident or some other cause beyond his control, and that he took all reasonable precautions and exercised due diligence to avoid the

offence.

Eleven Schedules

Part V of the Bill is concerned with local administration and local weights and measures authorities. There are eleven schedules. The first sets out the definitions of units of measurements, the second relates to primary and authorised copies of standards, and the third lists the measures and weights lawful for use for trade. The Fourth Schedule, as stated, lists the "abbreviations" of units of measurements lawful for use for trade. The Fifth Schedule, headed "Foods" is divided into a number of parts. Part VIII refers to a number of foods to be sold by net weight or if prepacked are to be sold only in quantities of two, four, eight and twelve ounces, one pound, one and a half pounds, or a multiple of one pound and in a container marked with an indica-tion of the net weight. The foods listed in this schedule include cereal breakfast foods in flake form; tea, cocoa, coffee; honey (other than chunk honey), jam and marmalade (other than diabetic jam or marmalade) molasses, syrup and treacle; salt (other than cut lump); and

sugar. A special exemption is provided for honey in comb and for any other goods that are in quantities of less than

one ounce.

Part XI requires the following foods to be "marked when prepacked with quantity by number":—(a) Cereal biscuit breakfast foods; (b) fruit preservative tablets, rennet tablets, saccharin tablets, soft drink tablets and sweetening tablets; (c) vanilla pods.

Three tables are included in Part XIII giving details of permitted weights for containers when the requirements demand gross weights to be declared.

The Eighth Schedule controls miscellaneous goods other than foods and lists a number of items that must be sold by retail only by net weight, and may only be prepacked if the net weight is declared on the container. The list includes (a) cleansing powders and scouring powders; (b) detergents other than liquid detergents; (c) distemper and paste paint in quantities of half a pound or more; (d) manufactured feed for domestic animals and bird feed. There is an exception for bird seed in a quantity of less than four ounces and other seed in less than half-ounce quantities; (e) soap, other than liquid soaps; (f) soap flakes.

Among the goods controlled by Part VI, which requires goods to be sold by or marked with a capacity measurement when sold in quantities of more than

five fluid ounces, are the following:— Enamel, lacquer, liquid detergents, liquid soap, turpentine, turpentine substitute and wood preservative fluid (including fungicides and insecticides). Under Part VIII prepacked writing

Under Part VIII prepacked writing paper and envelopes may only be sold if the container is marked with an indication of quantity by number. The Ninth Schedule deals with a

The Ninth Schedule deals with a number of miscellancous situations concerning composite goods and collections of articles. The Tenth Schedule lists the enactments to be repealed six months after the Bill is passed, whilst the eleventh schedule refers to the application of the provisions to Northern Ireland.

ORTHODOXY AND OBSOLESCENCE IN PACKAGING

Specialised chemical-industry discussions at Harrogate

DELEGATES to the second packaging conference of the Association of British Chemical Manufacturers, held at Harrogate from October 31 to November 3, were asked to decide whether the industry was out of date in its approach to packaging. Theme of the conference was the question "Is the Orthodox Package Obsolescent?" Three papers were presented, the first outlining the factors involved, followed by one paper each for and against "the orthodox package."

A Dilemma

MR. R. Morris (technical director, Joseph Crosfield, Ltd.) presented the first paper. He said that, if he claimed that the orthodox package was obsolescent, he would be faced with the dilemma of suggesting what should replace it. If, however, he claimed that it was not, he would be accused of failing to keep abreast of technological developments. "But where, in the 'galaxy' of packages, is orthodoxy?... And which package is obsolescent under all applications? There may be at any one time a package being used by any one company that we may think is obsolescent, but ... there is no such 'animal' as the obsolescent package."

The final specification of a new pack-

The final specification of a new package should include a proper balance of protection, sales appeal, low cost, and ease of handling. The assessment of the balance was complex, and the final decision had to be a compromise. There was another factor: time. The ideal package should give adequate protection at low cost, have proper handling characteristics and adequate sales appeal, all at the proper time.

Change for the sake of change was unnecessary, often dangerous and could lead to economic ruin. But the question had continually to be posed, if stagnation were to be avoided: "Is the orthodox package obsolescent?"

There had to be co-operation at all stages before a new package was introduced. "Wax laminant, used in the manufacture of a moisture-proof laminated cartonboard, was at one time delivered to my company in 28-lb, paper bags. That involved slow cooling of the wax in hundreds of tins, and individual packaging at the supplier's end, only to involve the tedious operation

of removing the wax from the paper bags before remelting in our own factory. That system has been replaced with 15-cwt bulk loads in insulated containers capable of being heated electrically and operated on a shuttle service. Similarly the introduction of the fork-lift truck, and bulk handling of solid materials both pneumatically and by the use of fluidisation techniques, have influenced the package of our time. But whilst the impact has been considerable, the full potential has by no means been realised."

Packaging was but a part, though an important part, of the whole management operation. Those engaged in it had a clear responsibility to advise colleagues performing other functions of management of the advantages that could accrue from more detailed attention to the packaging problem. There should be a continual process of investigation of all new developments in packaging.

"As a buyer of raw materials I am not so much impressed with the 'silent salesman' appeal of a beautifully painted drum, of which I must dispose; nor by the attractively printed paper bag which I have difficulty in opening; nor again the well-presented hessian bag which I must store and later sell, as I am with the 14-ton bulk fluidised tank car of phosphates or the Cov-Hop of soda ash which I can turn around in a time measured in minutes."

An Element of Complacency?

Mr. Morris said that behind the question "Is the Orthodox Package Obsolescent?" he suspected an element of complacency. It concealed the assumption that there was a package that was perfect. That hidden assumption was dangerous. Orthodoxy and obsolescence were of the mind and not of the object. Packaging was bound up with all aspects of business, so that the question should be reviewed in relation to all those other fields and no change could be made without consulting them. The ideal package must of necessity be a compromise, and the decisions taken applied to only one point in time. All should therefore continually investigate the question "so that the answer today does not become the complacency of tomorrow."

JAMES PILDITCH (managing director, Package Design Associates, Ltd.) presenting the case for the un-orthodox package, said that some firms in the chemical industry were huge and imaginative and led British enterprise: they did not become leaders by Those in the accepting orthodoxy. chemical industry were not a little re-sponsible for the rapid evolution of techniques in the twentieth century. "We must grapple with new concepts irrespective of where they come from. You in the chemical industry were the ones who invented most of the new packaging materials, yet you hardly ever seem to use them. You stick like glue to round steel drums, straw-stuffed crates, and all sorts of paraphernalia long since superseded in other industries." Mr. Pilditch went on to suggest that, with the industry's knowledge of chemistry, it could perhaps adapt the products themselves to make them easier to package, store and transport. "Would it not be wonderful if, in-stead of sending out vast fleets of bulk tankers, you could find some way of sending out some chemicals in their quintessence. What about phenols. for example? Might not the high cost of heating and cooling be alleviated if you could send out solid blocks packed in foil?"

The Case for Orthodoxy

The case for the orthodox package was presented by MR. E. RICHARDSON (design department manager, Boots Pure Drug Co., Ltd.), who said that novelty did not necessarily imply goodness. "In some of your minds there seems to be a belief that the words orthodox and obsolete mean about the same thing: unenterprising. railway specifications for the carriage of dangerous goods are specifications to which you conform. They may be regarded as established packages, yet how can they be described as obsolescent?" If a new package were devised for hydrofluoric acid it still could not be used for dispatch on the railways until the railway authorities were convinced that it was all right, and when it was accepted it would become standard-but that would not mean that it was obsolescent.

Mr. Richardson argued that a package became orthodox once it had

proved to be the most satisfactory answer to the various factors involved: protected its contents, was convenient to handle, store and use, and presented no risk of chemical or physical reaction with the product itself. Cost was another important consideration — the initial capital cost of introducing a new package was perhaps the greatest factor in preventing existing packages from becoming obsolescent.

New types of packaging presented disadvantages no less than conventional ones, and a package that was obsolescent for one firm might be just the thing for another. Glass carboys, for example, were far from obsolescent for companies like his own, which dispatched a few carboys mixed with other goods as a part of a composite order, and which dealt largely on the home market, where reuse was a factor. Others might find that a corrugated fibreboard box with plastic inner was better suited to their needs.

"The tendency today in striving after something new is to increase the cost of packaging. If you are packaging a dangerous chemical or an expensive or dangerous drug, you may decide that you cannot afford to risk a single breakage or leaker, and spend your money on an elaborate package to protect the goods. But if your product is cement or one of the simpler fertilisers, economics will dictate that you risk a few faulty sacks rather than double or treble the cost of your package to avoid them, and you will require much persuading before you

change to a new package.

In opening the discussion, the conference Chairman (Mr. G. H. Edwards, Unilever, Ltd.) asked Mr. Pilditch, who had spoken of the need for a square drum, what about the need for a conical drum that could be nested when empty? Were the present drums large enough "or can we come nearer bulk packaging with drums?" Did the industry boggle at really large containers? Could the product be used as its own container? Activated carbons, in the United States, were being packed in soluble materials—could that method be extended? Why could not paper sacks be divided so that a measured quantity could be used each time?

ured quantity could be used each time?

MR, E. O. ROUNSEFELL (Laporte Chemicals, Ltd.) said that there was a triumvirate in packaging: the package maker or supplier, the manufacturer who utilised the package and the consumer. Which of those three should determine the quality or type of a package? MR. MORRIS said that, in the free economy of today, the consumer was on a pedestal, where he should be, but the packaging supplier and the user each had problems, and it was only by co-operation that those problems could be overcome, DR, G. L. RIDDELL (Reed Paper Group) believed it was up to the manufacturer of the product to find out the customer's views by market research. He agreed with the underlying theme of the third paper that the major factor was cost.

A speaker who criticised paper-sack manufacturers for not producing an easy-opening device for paper sacks, was told by a member of the Bowater group that his company had produced such a device. Its cost was only about one-tenth of a penny per cwt, sack, yet customers did not seem interested.

MR. A. F. MUCH (Imperial Chemical Industries, Ltd.) said that Mr. Morris had given him the impression of sneering at the industrial bulk pack as a possible "silent salesman." Did he really believe that the bulk pack could not be used as a propaganda medium? Morris: I believe that there could be an improvement in ease of identification that could lead to greater safety in handling. Another speaker said that Mr. Pilditch's "flights of fancy" had hidden the true problems inherent in the question. Would the third speaker agree that packaging supand designers had failed to pliers show initiative—for example, in providing an economic alternative to the skillet, a pack long obsolete but re-tained on economic grounds (mainly that the chemist had only 1-62d, per prescription as a container allowance). Surely to produce an alternative, economically feasible pack, would demand more imagination than even Mr. Pilditch had shown in his paper, MR. RICHARDSON said it would be a good thing if an alternative pack to the skillet were devised.

The conference then divided up into four private groups to discuss in greater detail problems that affected themselves, or their relationship with the subject of the conference.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Packaging Problem

SIR,—" Xrayser" seems to have had a tough time learning to wrap a bottle of medicine to look elegant. Has he ever had to wrap a tripod stand (with splayed legs) and/or an ordinary funnel?

C. PRESTON, Sheffield, 1

" A Splendid Job of Distribution "

SIR,—Let Ricardo (C. & D., November 5, p. 570) take courage and treat the Coldrex firm with the contempt it deserves. His mode of action should be to recommend other products for colds.

ALEXANDER G. MURDOCH, Mintlaw, Aberdeens

SIR,—Ricardo, who wrote last week (C. & D., November 5, p. 570) that grocers have large stocks of Coldrex will no doubt be pleased to hear that not only grocers but many "frontroom" shops in this area have ample stocks of this product. The manufacturers appear to have done a splendid job of distribution and we are sure that it is not necessary for us to display showcards or indeed display boxes of this product in our pharmacy in the future.

R. C. FREEMAN, Newbury, Berks SIR,—Again I am asking your kind permission to print the following. "Ricardo's" remarks in C. & D. of November 5 are quite true. Not only are the grocers stocking Coldrex but, according to the Ulster Chemists' Association, they are receiving bonus terms on small quantities of the product. But how many pharmacists remember, at the counter, that Coldrex is manufactured by the Winthrop group, of which another member is the manufacturer of Neophryn, Panadol, etc., preparations which until now I was recommending. But not now!

JOHN McGIVERN, Belfast, Northern Ireland

SIR,—The letter of Ricardo regarding Coldrex was rather pathetic. Is he so young and new to pharmacy as not to know the reputation of the firm he deals with? When did that company ever claim to sell anything for chemists only? Did he not read, in the past, that its profit margins distinctly showed a "grocer" mentality? Then why load up with one of their new lines? Incidentally another such firm's representative called on me this week waving the flag of goodwill. His story was that his firm was the only British firm manufacturing tetracycline. He was amazed when his story bounced off me—he was a new "rep" and very young—but I am older and remem-

bered the parent firm giving away "patent" medicine licences to grocers. Another firm stabbed me in the back, and I am still bleeding—it will take a pretty stiff blood transfusion before I revive. Other firms please take notice.

R. W. WAKEFORD,

Hayle, Cornwall

Not the Society's Prosecution

SIR,—My attention has been drawn to a report published in a recent issue of THE CHEMIST AND DRUGGIST (C. & D., October 29, p. 531) relating to proceedings in the Divisional Court in which Mr. Cyril Teasdale, M.P.S. succeeded in his application for an order of certiori for the purpose of setting aside a conviction by the Barnsley magistrates' court at which he was fined £50 for an alleged offence under Section 19 of the Pharmacy and Poisons Act, 1933. May I make it clear that the proceedings were not brought by the Pharmaceutical Society but by the police. I was not surprised at the result, since shortly after the case came before the magistrates I pointed out to the police that Section 19 is an exempting section and not a penal one, and that the result of the magistrates' decision was to make it illegal for an unqualified assistant of a pharmacist to dispense a non-poisonous medicine not under the direct personal supervision

of the pharmacist. If you could draw attention to the fact that the Pharmaceutical Society were not involved in his, I should be most grateful.

A. C. CASTLE, 17 Bloomsbury Square, London, W.C.2

How to Calculate Costs

SIR,—Xrayser's comments in THE CHEMIST AND DRUGGIST, October 29 p. 527), make interesting reading. Views expressed about the weight of pharmaceutical propaganda and the quantity of medical samples are matters of opinion, and like most opinions of hat type are coloured by what the ndividual wants to believe. The cost of keeping a hospital bed occupied is about £1,000 per annum. The cost of trugs on the Drugs Bill is something

over £40 millions or 40,000 occupied beds: one-fourteenth of those available. It should not be difficult to produce evidence that modern drugs save at least their cost by comparing, for each condition, the length of time in hospital today with that of, say, twenty-five years ago. In the case of tuberculosis alone the saving should be substantial. Alternatively, taking the working population as 20,000,000, and the daily productivity value of each worker at the low £2, it is within the realms of possibility that modern drugs save at least one working day per worker per year. A third way is to calculate the number of lives a year modern drugs save. Such facts, clearly and simply presented by the industry, should do much to quieten the "pundits" who regard the pharmaceutical industry as fair game;

and will be far more effective than chasing the red herrings of alleged waste of pharmaceutical propaganda.

K. J. KNIGHT, F.P.S., Shoreham-by-Sea, Sussex

Paying the Penalty

SIR,—Although the judge seemed to think it was a "light" sentence, I was surprised at the severity of the eighteen months' imprisonment recently imposed on a dispenser for supplying caffeine when even a pharmacist may supply it without prescription and, at the present moment, the sale is not encumbered with all of the confusing schedules. Without doubt some of our national newspapers will now badger for this "dangerous" drug to be brought under control.

H. G. A. CRIPPS,
Hitchin, Herts

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN FEWER AT BRANCH SECRETARIES MEETING

Inquiry into reasons for decrease in attendance

THE decline in number of Branch secretaries attending the branch secretaries' meeting, held this year on October 5, was the subject of comment at a Council meeting of the Pharmaceutical Society in London on November 2. It was then reported that the meeting had been attended by sixty-four secretaries, against sixty-six in 1959. and that that was rather less than half the total potential attendance, Mr. F. W. Adams, in reply to questions, said that several months' notice had been given of the meeting. In his view the attendance had not been unsatisfactory. THE PRESIDENT pointed out that some of the secretaries were employees and could not take time off to attend the meeting, whereupon Mr. H. STEINMAN asked whether they could send deputies. THE PRESIDENT replied that they could, but Mr. E. A. BROCKLEHURST did not think that the appointment of deputies for that meeting ought to be encouraged. The meeting should be between the secretary of the Society and the Branch secretaries, MR. D. W. HUDSON (chairman of the Establishment and Organisation Committee) agreed that secretaries should attend in person. To send deputy who knew nothing of the correspondence that had been passing between the branch and headquarters would be a waste of the Society's money, Mr. M. JACKSON suggested that the meeting should be held every two or three years instead of annually. Many secretaries, he said. did not think it worth while to attend a meeting every year unless there was some business of importance on the agenda, Mr. Steinman said that some Branches had assistant secretaries, and it might be helpful if they were invited to the branch secretaries' meeting. THE SECRETARY suggested that steps could be taken to find out why so many branch secretaries had not attended.

A Franco-British Club?

MR. H. S. GRAINGER (chairman, Franco-British Pharmaceutical Commission) reported that arrangements were in hand to hold the 1961 Franco-British Pharmaceutical Congress at St. Helier, Jersey, May 12–15. MR. A. ALDINGTON asked whether an opportunity could not be given for delegates to stay for a longer period if they desired. SIR HUGH LINSTEAD replied that bulk transport was being arranged, and if delegates desired to stay longer than the official period they would need to make their own transport arrangements.

MR. GRAINGER said it was felt that the time had come to put the relationship between French and British pharmacists on a slightly different basis from that of merely attending congresses, and the secretaries of the two sides had undertaken to prepare a scheme for discussion whereby a kind of club might be formed to which pharmacists of both countries might belong. If the scheme could be prepared in time it would be presented to the Congress in Jersey. Finally Mr. Grainger reported that the French Ambassador had shown much personal interest in the Commission's work, and had expressed the hope that, the next time the Commission met in London, they would be his guests for lunch.

The Council agreed that, in addition to the educational grants already made this year, a grant of £1,000 should be made to the Royal Technical College, Glasgow.

In presenting the minutes of the Law Committee, MR. TRISTRAM said that during September 1960 the premises of 1.155 authorised sellers, 158 listed sellers, and sixty-three drug-store proprietors had been visited by the Society's inspectors. During the same period 445 drug stores, grocery and similar shops had been visited by agents.

The Council approved a recommendation that the persons appointed by the Society to serve on the Poisons Board for the past three years should be reappointed to serve for the three years commencing November 1. They are Messrs. F. W. Adams, D. W. Hudson, C. W. Maplethorpe, H. Noble, and D. E. Sparshott.

New Fellows of the Society

Having received a report from Dr. Lane-Petter and Professor Macdonald, who were appointed assessors to report on the application for election to Fellowship made by John Henry Wilkinson, Ph.D., B.Sc., M.P.S., F.R.I.C., the Education Committee recommended that Dr. Wilkinson should be designated a Fellow under Section III (3) of the Society's by-laws. It was also recommended that Gerald Rodney Wilkinson should be designated a Fellow under Section III (2) (b) of the Society's by-laws.

The Education Committee recommended that a memorandum should be prepared by Dr. Capper for branch secretaries and heads of schools of pharmacy giving detailed information about revision courses in pharmacology for pharmacists. It was further recommended that publicity should be given to the matter and to the courses already organised.

Attention was drawn to the following changes in the centres for written examinations in 1961. For the Entrance and Intermediate examinations to be held in March 1961 the only centre in England and Wales would be Birmingham; for the Qualifying examination (two-year and three-year courses) the examinations in June and December 1961

would be held at the usual centres except Dundee and Manchester. It was hoped that an additional centre could be arranged in Bradford.

After considering particulars of the Commonwealth Technical Training Week, to be held from May 29 to June 4, 1961, it was agreed that Messrs. Aldington and Hudson should advise the office on the arrangements that might be made, if necessary referring the matter to the Publicity Committee for further consideration.

It was agreed to send a Christmas gift of £5 from the Benevolent Fund to each of thirty-nine annuitants, and of £2 2s. from the Orphan Fund to an orphan. It was also agreed to make a gift of £2 2s, to each child under sixteen years of age whose parents had received grants from the Benevolent Fund during 1960.

MR. HESELTINE reported that a letter had been received from Mr. Alexander Wilson, Newcastle-upon-Tyne, author of the play "The Wick and the Wax" in which he had offered 100 copies to be sold for the benefit of the Benevolent Fund. The Committee appreciated Mr. Wilson's gift, and hoped that branch secretaries would publicise its availability so as to ensure the sale of the copies, Mr. Heseltine said he understood the copies were autographed.

Grants totalling £210 10s, were made to nine widows and the Council approved grants to four other widows and six members. Applications from four widows and one member were deferred. Special contributions to the Benevolent and other funds totalled £112 3s., and a contribution of £10 10s. had been made to Birdsgrove House Fund by the Western [London] Pharmacists' Association. THE WARDEN reported that, during the period September 17 to October 16, thirtytwo guests had stayed at Birdsgrove House for an aggregate of thirty-three weeks, against thirty-five guests for an aggregate of forty-four weeks during the corresponding period During the same period twelve contributions, of 1959. totalling £39 15s., had been received from guests to supplement weekly payments, against seven contributions totalling £35 19s, in the corresponding period of 1959. A recommendation that Birdsgrove House should be closed to guests from December 18 until January 8, 1961, inclusive, was adopted.

Seven former members of the Society were reported to have paid the necessary fees and penalties and had had their names restored to the register. The Council approved recommendations that five persons who had applied for registration under Section XIX (14) and fourteen persons who had applied for registration under Section XIX (16) of the Society's by-laws should be admitted to the register.

A Resolution from the County of Somerset

The Council adopted a recommendation of the Public Services Committee to send a suitable reply to the following resolution passed by the County of Somerset Branch at its meeting on October 13:—

That it is the opinion of this meeting that the Council of the Society should use its influence to reject the introduction of the metric system on the grounds, that it would create confusion in extemporaneous dispensing, and chaos in container sizes and labelling, both for the dispenser and the patient.

It was reported that the Scottish Department Executive, at a meeting on October 19, had filled by the co-optation of Mr. Adam Roxburgh the vacancy caused when Mr. W. A. Park became an ex-officio member of the Executive.

MR. D. W. HUDSON (chairman of the British Pharmaceutical Conference Committee, 1960) said that the number of vouchers received from Branch representatives appointed to attend the Newcastle-on-Tyne Conference meeting was now 180 from seventy-five branches, costing £3,371. The Bournemouth Conference in 1959 had been attended by 221 representatives from ninety branches at a cost of £3,594. A final report, after all vouchers had been received, was asked for.

The Establishment and Organisation Committee recommended for consideration by the Conference Executive two subjects for discussion at the Professional Session of th British Pharmaceutical Conference in 1961. The topic were "The Effect of the National Health Service on th Profession of Pharmacy" and "Publications in Pharmacy. It being understood that the suggestions were to be take only as an indication of the subjects in mind, and th more precise titles were to be chosen later, the recommendation was adopted.

Running the Office

Among new equipment to be purchased by the Societ were an accounting, a duplicating, and a postal frankin machines. MR. J. B. GROSSET asked whether the Societ should consider inviting an organisation-and-methods con sultant to see whether the office procedure was bein conducted along modern lines. Mr. D. W. Hudson replied "We had a visit from those gentlemen, and it was an extremely expensive procedure. I cannot say that they pro duced anything that was new except the addition of abou £1,200 on the bill. Over the years certain departments hav proceeded towards mechanisation and mechanical offic aids. As those aids have been successful they have been extended, and as the original equipment has come to the end of its life, it has been replaced, by more efficien machinery." A suggestion that the Council should conside keeping the minutes in loose-leaf folders, because of the rising cost of minute books, prompted MR. J. B. GROSSE to state: "Loose-leaf minute books are a contradiction it terms. Minute books should be like St. Peter's book—incap able of being rubbed out. No matter what the cost, the minutes should not be in a loose-leaf book." THE PRESIDENT replied that steps could be taken to ensure that no page were lost, and at the end of the year the minutes would be transferred to a bound book, MR, Hudson confirmed that there were many satisfactory means of overcoming all the problems involved, but several members expressed their doubts about the proposal, and THE PRESIDENT assured them that no decision would be taken until the matter had been before the Council again.

It was reported by Dr. MACMORRAN that the Executive of the Scottish Department had given further consideration to the formation of a Branch in Fife, A meeting of the pharmacists concerned had been called for November 23 at which the formation of the Branch would formally be moved.

MR. HUDSON reminded Council that the next meeting would be held at the offices of the National Pharmaceutical Union, and subsequent meetings would be held in the Council room of the College of Preceptors until certain alterations were completed. He also placed before the Council a recommendation that the Society's House be closed on December 26 and 27. The recommendation was adopted.

The Council adopted a recommendation that permission be given to the Department of Pharmaceutical Sciences for the employment of a post-graduate student under conditions which would permit of his work being recognised as practical training for the purpose of registration as a pharmaceutical chemist.

After discussing reports so far received of losses by pharmacists in the recent floods, it was decided to defer making grants until the December meeting of Council, by which time the total of possible claims on the Emergency Fund would be known. An immediate loan was reported to have been made to one pharmacist on the authority of the president, and it was agreed to give similar assistance in other cases if necessary.

THE PRESIDENT reminded members that the occasion was the last on which the Council would meet as Council in the present room, which had been the Council Chamber for eighty years, MR, McNeAL said there were four members present who had attended Council meetings in the chamber for twenty-five years, and he, for one, would be sorry to leave it, as it contained so many stirring memories.



For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

Weighty Problems

EVEN a brief perusal of the Weights and Measures Bill see p. 600) reveals some surprising ingredients which ndicate that those responsible for drafting the Bill nave not given the matter sufficient serious consideration. That is the more strange since the Hodgson Report, upon which many of the proposed changes are based, was issued in 1951. Our criticism is made in the full knowledge that the Bill embraces a wide field of activity and affects an exceptionally varied range of trades, and transactions as dissimilar as dealing in readymixed-concrete, detergents, and silver "thread lace or fringe."

Somewhere between those extremes are to be found 'transactions in drugs." In that sector our main criticism is directed at clause 10(3), which states that transactions in drugs shall, after the provisions take effect, be carried out only in apothecaries' or metric measures until such time as the Board of Trade decides to make the use of the apothecaries' system illegal in respect of transactions in trade. To assist in the interpretation of the clause we learn from the definitions in the Bill that 'drugs" and "food" have the same meanings respectively as for the purposes of the Food and Drugs Act, 1955, or-in Scotland-of the Food and Drugs (Scotland) Act, 1956. Thus a customer requiring sodium bicarbonate for therapeutic purposes would have to be supplied in either apothecaries' ounces or in grams. As a food (possibly for baking purposes), the same item could be supplied in the avoirdupois system. particular problem could no doubt be surmounted by the pharmacist, who is trained to deal with all the systems, but the unqualified person in unregistered premises is likely to find it insuperable. Furthermore—and this is perhaps the most important aspect—the customer s likely to be made more than slightly confused by those complications, a state of affairs the supporters of the Bill claim they are trying to remedy.

We know, by inference, that the Bill differentiates between transactions in, and the dispensing of, drugs, for clause 10 states "no person shall . . . except in connection with the dispensing of drugs use for trade any abbreviation of or any symbol for the unit of measurement of length, area, volume, capacity or weight other than the abbreviation included in the fourth schedule." Thus, in the writing of a prescription, the abbreviation used for a gram may be G as in the British Pharmacopæia, but if drugs are being labelled for sale over the counter (not for dispensing) then g becomes the only legally permitted abbreviation. Other

small differences—matters of full points omitted after several, but not all, the abbreviated forms — are less serious but not entirely trivial. When, for example, "in" the abbreviation falls to be used before the phrase "in length", how can the result be quickly intelligible? We must hope that, before the Bill receives Royal Assent, uniformity will be achieved on those matters, and a more workable treatment ensured for over-the-counter drug sales.

The British Pharmacopæia Commission's decision to abandon the apothecaries' system in the B.P., 1963, will take effect before the change to the metric system envisaged in the Bill, clause 10 of which empowers the Board of Trade to proscribe the apothecaries' system at any time after five years of the Bill's becoming law. Whilst the Bill, if passed, will have an important effect in the pharmacist's dispensary, more far-reaching changes are likely to be seen in other sections of the pharmacy. The control envisaged on prepacked products, for example, is a strict one, and many manufacturers who do not at the present time declare the weight or contents of packs of their products will be required to do so. Thus slight changes of pack sizes to cope with changes in prices of raw materials, without amending consumer prices, will no longer be known only to the manufacturers of many products. The weight or capacity must be declared on the container for the consumer to see.

An important aspect of the Bill is the insistence that certain goods, prepacked and otherwise, must be sold in specified quantities. Thus there will no doubt be a much tighter control of the weight of consumer goods generally, and consumers should have a better opportunity of comparing brands and products. The problem of value comparisons will however, still remain in many classes of consumer goods.

To return to the pharmacy, the key to the situation in the dispensary is the doctor. As we have stated previously, when referring to the warnings given by Dr. Capper at the British Pharmaceutical Conference (C. & D., September 10, p. 305), many members of the medical profession would probably be content, unless compelled to do otherwise, to go on prescribing as they do now, leaving the pharmacist to calculate comparisons and "metrify" the prescription. The new Bill should contain provisions compelling the prescriber to write his prescription quantities in the notation in which the pharmacist will have to dispense them.

How to Confer on Chemical Packs

It is problematical whether delegates to the second packaging conference of the Association of British Chemical Manufacturers (see p. 601) will have learned so much from the papers presented at the opening session, or indeed from the discussion that followed them, as they had hoped. That is not to suggest that the conference was unsuccessful or that the delegates' time in attending was wasted. On the contrary, the private discussion groups, both formal (Association-organised) and informal (often in the relaxed mood that followed dinner) provided many with food for thought, and a few with possible solutions to specific problems. In those respects the conference was an undoubted success. But it is fair to say that, if the conference is to maintain its status, it must be constantly consolidating and improving itself. Far too much time was wasted at Harrogate on the definition of the theme, in itself an abstract: 'Is the orthodox package obsolescent?" The three authors of the papers must have had a jolly time with dictionaries (not only the shorter Oxford, but also Latin and Greek) in order to arrive at their different interpretations of the meaning of "orthodox" and "obsolescent." The conference should not have to worry over definitions of words. Its theme should have been set out in words that did not require the delegates to become lexicographers. More specific titles should in future be chosen for members to discuss. Yet again, the complaint was heard that those attending had not been given sufficient information on the types of package with which the conference was to be concerned. That led to a request from delegates representing pharmaceutical companies for a discussion group on their specific problems. The request was granted. But discussion within that group led to the exhibition of yet another bone of contention, namely that the whole

tone of the conference was set to suit the handler of materials in lots of 16 tons or more. So the request went forward that the organising committee should divide future conference discussion groups according to the sizes of container in which delegates might be interested, and - more difficult - should organise the time-table so that delegates could attend more than one of the discussion groups should they so wish. Many suggestions for improvement were made, and that in itself is proof that the conference is wanted. The Association might consider whether the interval between these specialised conferences is not too long. The first on packaging was held two-and-a-half years ago. If interest is to be maintained, let alone stimulated, in a particular aspect of the chemical industry, then less time should be allowed to pass between one and the next. British industry is often enough accused of being dilatory and obtuse to the consumer's needs. Here is a chance to improve its reputation and performance.

NEW BOOKS

Directory of the Federation of Nigeria, 1960

Diplomatic Press & Publicity Co., 13 Cotswold Gardens, London, N.W.2. 11 x 8½ in. Pp. 212, 30s,

WITH Nigeria recently attaining independent status the issue of their directory is timely. It follows the same pattern as the two previous directories in the series (Ghana and Sudan).

Fats and Oils

H. G. KIRSCHENBAUER, Chapman & Hall, 37 Essex Street, London, W.C.2 (for Reinhold Publishing Corporation). $9\frac{1}{4} \times 6\frac{1}{4}$ in. Pp. 240. 56s.

In bringing this (the second) edition up to date, the author, who is head of the patent liaison division of the Colgate Palmolive Co. in the United States, states in the preface that he has tried not to depart from his original intention of producing a simple and compact book giving all the fundamentals of the chemistry and technology of fats and oils. Among the subjects he discusses are autoxidation, rancidity, fat stabilisers, cholesterol in diet, chromotography of lipids, and sequestering agents. There are numerous tables and diagrams and the work is adequately indexed.

Piper methysticum (Kava)

Dr. E. F. Steinmetz, 347 Keizersgracht, Amsterdam, Holland. 9 x $5\frac{3}{4}$ in. Pp. 46. 14s. 6d.

THE author has made an exhaustive study of kava having examined all old and new literature on the subject. The most important details are given in this soft-backed booklet. The medical use of many botanicals have been dropped in the past, sometimes through lack of knowledge of the right method of administration—as with kava—the author states. Dr. Steinmetz hopes that the booklet will stimulate research workers to find out more about the active constituents of kava and produce stable medicinal preparations therefrom. The book is well illustrated with scenes from Fiji, Samoa and other Pacific islands.

Chemical Plant Instrumentation

Association of British Chemical Manufacturers, 86 Strand, London, W.C.2. $8\frac{1}{2} \times 5\frac{1}{2}$ in. Pp. 55. 7s. 6d. (6s. to members of the Association).

In an attempt to increase the productivity of the chemical industry, the Association of British Chemical Manufacturers set up an instrumentation advisory committee in 1954. The committee have issued and circularised to members a series of notes on instrumentation. Those have now been re-issued in book form. As stated in the introduction, the language used is free from technical jargon and is written for those whose knowledge of instruments may be limited. Among the subjects dealt with are thermocouples, absolute pressure, steam flow, gas chromatography, non-dispersive infra-rcd analysers, the glass electrode pH meter, flue-gas analysers and smoke-density meters.

Polythene (The Technology and Uses of Ethylene Polymers)

A. RENFREW and PHILLIP MORGAN. *Iliffe & Sons, Ltd.*, Dorset House, Stamford Street, London, S.E.1. 9\frac{1}{4} x 6 in. Pp. 874. 165s. net (by post 167s.).

This book sets out the basic facts of all aspects of polythene production, properties, handling techniques and major uses in an authoritative appraisal which should be essential to all technologists in the plastics industry and in many industries where polythene has now assumed such an important rôle. The present edition, the second, contains approximately 300 more pages than the previous one; chapters have been revised so that the original text has been largely rewritten in order to bring the book in line with the rapid developments, particularly in relation to higher density materials, which have occurred since the first edition was published in 1957. The chapter on manufacturing processes now appears as four contributions describing the four major manufacturing methods. Polymerisation reaction is dealt with in two important contributions—one dealing with polymerisation by free radicals and the other with polymerisation by ionic growth. The fast-growing field of copolymers is described in a new major contribution on ethylene copolymers and blends of polymers. Other important additions in clude: vacuum forming; reprocessing; and two chapters on packaging outlets other than film. Valuable appendices are a table of world manufacturers of polythene and their production capacities, and a list of world proprietary names for ethylene polymers. An authors' index has been added to the usual subject index.

ONE HUNDRED YEARS AGO

CHEMISTS versus DOCTORS

From the C. & D., November 15, 1860

It will be no fault of the medical profession if the "Sale of Poisons Bill" is not revived at the next sitting of Parliament. Their chief organs are keeping up a gentle agitation upon the subject, by constantly abusing the dispensing chemists. The "Lancet," in particular, gives prominence to extravagant stories about the ignorance of druggists, and carefully keeps a register of all cases where poisoning appears to have been the result of careless dispensing. A class journal has a perfect right to advocate what it supposes to be the interests of its friends and supporters, and other class journals, representing other interests, have a perfect right to criticise and examine such advocacy. With this interpretation of our duties, we adopt a letter received from a correspondent signing himself "Fairplay," and devote a few lines to a commentary upon its contents, . . . Our correspondent . . says, "I have not the least ill-will to the medical profession; far from it, but I do maintain that, as a body, the dispensing druggists are as careful as their more privileged neighbours, and that the alleged cases of poisoning are as few, in proportion, on the one side as on the other."

DEVELOPMENTS IN PHOTOGRAPHIC MATERIALS

Photokina 1960 and the problems it poses the stockist

year's Photokina. held in THIS Cologne, Germany, completed ten years of such exhibitions in the post-war era and showed, perhaps, better than ever before, how great has been the development in apparatus and materials. Coupled with that material progress has been a steadily increasing value in the most popular size of camera and in its simplification from the user's point of view. Colour photography with 35-mm, cameras is rapidly becoming commonplace, and no longer is the miniature camera owner cum colour photographer necessarily either a "seri-ous worker" or an "expert." Cameras using that size of film, provided with automatic exposure control of one type or another, are available from a number of manufacturers. The choice is wide, as will be seen when all those models shown in Cologne, either as definitely in production or as proto-types to go into production for the 1961 season, eventually reach the British market.

Popular 35-mm. Cameras

In the past few years the most popular range of 35-mm. cameras has had a retail value of about £20-25—the average price of the newer automatic types is likely to be in the region of about £40. So far as can be forecast, the selling price of such cameras is not likely to decrease but to increase again, probably by another £10-20, with the addition of still more refinements, such as coupled range-finders. In the other important field, that of the box camera, improvements in design and style were also noticed, while the accent on flash is being still more stressed.

From the customer's point of view such a wide choice of equipment does present a problem of what to stock to the smaller dealer, and more especially to the chemist-dealer who may not have, nor wish to lock up, a great deal of capital in photographic equipment alone. That problem will increase.

The variety of types of camera is not only spread over a number of manufacturers, but several of the larger manufacturers have a wide range of equipment to offer. From the purely practical point of view, then, it would appear that the smaller dealer has a

choice between stocking several similar cameras from different manufacturers or of handling only those cameras from one maker's range. Since film sales are likely to influence any decision, the choice may go to a manufacturer who also produces both black-and-white and colour films. A choice of that kind may savour of putting all one's eggs in one basket, but it may be the sane solution to a difficult problem.

The problem is aggravated by the fact that it is likely that only the large purely photographic dealers and the mail-order houses in the field will be able to invest the necessary capital in a large number of the more expensive cameras, and in the slide projectors which are complementary to the 35-mm., twelve-on 127 and twelve-on 120 sizes. Colour, in the form of reversal transparencies or slides, sounds yet another warning note. Ordinary blackand-white negative material brings with it repeat business in the form of developing and printing and occasionally relarging, whereas reversal colour material is sold with processing rights and complete with packing for the return of the material to the maker's laboratory. There is thus nothing to bring the customer back into the shop unless the dealer is willing to invest in a slide projector and provide space for its use, so that help may be given to the customer when the processed and mounted material is returned to him from the laboratory.

A Call for Colour Prints

However, the prospect is not entirely without hope, for negative-positive colour materials are rapidly improving in sensitivity and in quality and, despite the popularity of colour slides, there will always be a demand for colour prints, which can be seen in the hand. Such colour materials may be used in most of the better-class box cameras, some of which have built-in flash and for most of which flash accessories are available. That group of cameras brings with it repeat sales of material, prints and flash-bulbs, and the alert dealer will ensure that he is conversant with modern practice and be able and willing to offer help and advice, so that his customer comes to rely upon him for

group of cameras made by the Agfa concern. The three cameras take 120 film and provide sixteen exposures (format 1 9/16 x 1 9/16 in., usually referred to as "super-slide" when used for transparencies). Points worthy of note are the general styling, with large optical view-finder set centrally over the lens, square picture avoiding turning the camera for horizontal or vertical pictures, easy film loading with swivelling film holder, double-exposure prevention device with red warning signal, and the simplified flash photography made possible by the mating Isoly flashgun, which only needs to be

successful photography instead of pin-

ning his hopes on the automatic devices

built into the more expensive cameras.

Typical of the larger companies'

ranges of equipment is the new Isoly



The Agfa Isoly I, one of the range of Isoly cameras which Agfa, Ltd., intend to market in this country in the near future.

attached to the camera to make contact (no external cable). The lens and shutter combinations are as follows:—Model I: f/8 Achromat with two stops (f/8 and f/11) and three shutter speeds, B, 1/30 and 1/100 sec.; model II: f/6·3 Agnar with two stops (f/6·3 and f/11) in Singlo shutter speeded B, 1/30 and 1/100 sec.; and model III: f/3·9 Color-Apotar (stop range from f/3·9 to f/22) in a Pronto shutter, B, 1/30 to 1/250 sec., plus delayed-action release. The Isoly flashgun takes capless bulbs and is of the capacitor type using a 22½-volt battery.

British Exhibitors

Ilford, Ltd., announced for delivery at the end of October the latest addition to the Sporti range of cameras, the Sporti 4, which provides twelve 1½-in. pictures on a 127-film, Here again styling is attractive and simple. The camera is fitted with a fixed-focus lens and has both tripod screw and accessory shoe to take the Sportilux flashgun. Messrs, Ilford were one of twenty British exhibitors at Photokina, and their stand stood out well in the central part of one of the main halls, Despite great competition from continental suppliers, Ilford materials are well thought of abroad.

As a sales aid, especially at traditional gift times such as Christmas, "gift packs" make a popular appeal and such a set, including camera, flashgun and a zip-case for it, two Selochrome pan films and five PF1 flash-





Two Kodak exhibits, the Retina Automatic II and Starmite (in presentation set), Messrs. Kodak plan to introduce both models into the United Kingdom early in 1961.



The Sporti 4, the latest camera to be introduced to the home market by Hford, Ltd.

bulbs is also being put out by Messrs. Ilford,

Kodak, Ltd., organisation also had a large stand, joining with its Ameri-can and continental associate companies, and here again a wide range of cameras, materials and equipment was displayed. The latest of the smaller box-type cameras, with moulded plastic cases, is the Brownie Starmite, with built-in flash unit, which was also shown as a presentation set. The format is $1\frac{5}{8} \times 1\frac{5}{8}$ in. (4 x 4 cm.) on 127 material, and the camera is intended for use with either black-and-white or colour. The flash unit takes PF1 bulbs and is powered with a couple of small 1.5-volt batteries. There are ten cameras in the Retina range: the Retinettes 1A, 1B, and IIA, the Retinas IB, IIIC, IIS, and IIIS, as well as the Retina Automatics I and II and the Retina Reflex S. Of those, only the Retina Automatic II is picked out for mention as being typical of the current trend in cameras having automatic exposure control. The camera is fitted with an f/2.8 Xenar lens of 45-mm focal length set in a Compur-special shutter speeded up to 1/500 sec. Within the view-finder frame are light signals for simplified focusing, three white dots for distant views, two for medium views and one for close-ups and, if the light is not good enough, then the word "stop" also appears and the shutter release lever is automatically locked! Other manufac-turers use red and green signals in the view-finder to show when the light is inadequate or adequate for good photography. In the Retina Automatic II, as in a number of other cameras of its class, the automatic control mechanism may be thrown out of action and the camera used "manually" in the oldfashioned way for special effects and so on.

Inexpensive Slide Projectors

Although some doubts have been expressed about colour in the form of slides, and the necessity for projection equipment, there are now quite a number of inexpensive slide projectors that do not present too much of a financial burden to the stockist. Among others, two British manufacturers who showed at Photokina may be mentioned in this field as supplying a range of projection apparatus: Aldis and Gnome, But even projectors are becoming more complex in their construction, though simplified so far as the user is concerned. Once a tray of slides is loaded into a chute

on the machine, step by step projection (in some instances with both forward and backward movement) and focusing are controlled remotely.

On the cine side there would seem to be little doubt that 8-mm is firmly established as the gauge for amateur use, and here again automatic control mechanisms are becoming the order of the day. The problem of providing control is possibly a little simpler than with a still camera, since the shutter-speed is usually a fixed one of about a 1/50 sec., and only the aperture needs to be altered. Although adding to the cost, "zoom" lenses again simplify the whole camera, since one lens serves the purpose of two or three lenses on a turret, and with reflex view-finding systems the precise field of view, changes in focal length, is easily seen. Add to that automatic exposure control and the whole piece of equipment becomes a joy to handle. Cost, how-ever, mounts quite rapidly and threefigure prices are not uncommon.

Much has been heard in the trade

Much has been heard in the trade about the prospective competition from Japanese cameras, but that competition is unlikely to come in the lower price brackets. Most of the Japanese equipment shown at Photokina was of the more expensive type, especially in the 35-mm. field. One maker, Canon, showed what is believed to be the first mass-produced ultra-wide aperture lens. an f/0.95 of 50-mm, focal length, i.e., with glass components greater in effective diameter than the focal length of the lens. With a restriction on the amount of apparatus that may be imported, it is obvious that it is better policy to bring in equipment of the top class than large quantities of cheaper cameras, in which there is individually much less profit.

Photokina, 1960, was again a magnificent display of apparatus, materials and accessories, contributed by about 550 companies from all over the world, spread over an area of about 750,000 sq. ft. in nine enormous halls. The burden of the exhibition falls principally upon the larger companies, which are finding it increasingly difficult to introduce new items every two years. It is likely that there will now be a gap of three years before the next Photokina.

PACKAGING NOTES

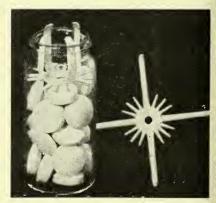
All-purpose Dispensing Box. — A new box to hold powder, tablets, ointment or cream has been introduced by Robinson & Sons, Ltd., Wheat Bridge



Mills, Chesterfield. Known as the A.P.D., the all-purpose dispensing box has non-splay side walls that maintain constant fit of box and lid, and it incorporates a feature that prevents the bottom from becoming displaced. Being suitable for either tablets or ointments, the A.P.D. avoids unnecessary duplication of stock boxes. There are two series, deep and cut-down (a 4-oz. of the former and a 2 oz. of the latter are illustrated). The new boxes incorporate a polythene/parchment barrier and are unaffected by damp or steamy atmosphere. The makers' special beading process ensures that the lid and base card are held securely in position. A.P.D. boxes are sent out in cartons specially made for convenient storage and easy access to contents.

Protection for Tablets.—John Dale, Ltd., Brunswick Park Road, London, N.11, are the sole licensees for Britain of the "Cerbo Star" (illustrated), a Swedish device for which patents are pending. Made of polythene, the "stars" are intended to replace cottonwool as a means of wadding in the headspace of glass bottles and aluminium or plastic containers for tablets. They are so de-

signed that each of the standard sizes incorporates sufficient tolerance to enable them to be used in varying sizes of containers or with containers made from differing materials. They are cheap and may be inserted by hand or by machinery that is to be made available for automatic insertion. They are non-hygroscopic and are not subject to discoloration as the result of exposure to strong light. Messrs, John Dale also point out that, because of their simpli-



city of insertion and removal from the container, they are likely to be reused instead of thrown away immediately the package is opened. In that respect their design is such that they retain their wadding advantage after partial removal of the contents of the bottle or container; there is no risk of particles adhering to the contents.

Filling and Lidding. — A new powder filling and press-on lidding machine introduced by Arenco-Alite, Ltd., Pixmore Avenue, Letchworth, Herts, handles tins or composite containers, either oval, round, rectangular or in other odd shapes with capacities from ½ oz. up to 2 lb., at speeds from sixty to 100 per minute.

Advances in Anti-infective Agents

ROMFORD BRANCH HEARS RECENT PROGRESS REVIEWED

REVIEWING progress made in the field of anti-infective agents since he had previously addressed the Branch, Mr. D. G. Ardley (a member of the clinical trials unit, May & Baker, Ltd.) gave a talk to members of the Rom-ford Branch of the Society on September 19. He said sulphonamide therapy was still considered by clinicians to provide the treatment of choice in meningococcal meningitis, and still widely employed for bacillary dysentery and for coliform and other infections of the urinary tract. An increasing number of strains of the dysentery bacillus and of *Bact. coli* were, however, showing sulphonamide resistance. New sulphonamides had been introduced characterised by slow excretion, enabling adequate blood levels to be maintained by administration at wider intervals. Of the newer compounds sulphamethoxypyridazine (Lederkyn or Midicel) was perhaps the most widely prescribed; one dose in twenty-four hours enabled adequate blood levels to be maintained. The compound became bound to a high degree to plasma proteins, and that was generally a disadvantage, but it did not appear to account for its slow excretion, which was dependent, apparently, on handling of the substance by the kidney. The compound had been found appreciably more toxic than many commonly used sulphonamides, and a number of reports describing reactions in patients treated with it had appeared in the literature. The reactions included thrombocytopenic purpura and severe dermatitis and the compound had been held responsible for reactions in more than 10 per cent.

of patients treated with it.

Another "once-a-day" sulphonamide was sulphadimethoxine (Madribon), a compound largely excreted in the urine as glucuronide; that conjugate, for which antibacterial activity had been claimed, had now been shown to be

Novel Features in a Sulphonamide

The compound 2-phenyl-3 sulphanilamidopyrazole (Orisulf or Orisul) was administered twice in twenty-four hours. His own company had synthesised and submitted to laboratory investigation a new sulphonamide containing a novel heterocyclic ring: 3-methyl-5-sulphanilamidoisothiazole, for which the common name sulphasomizole had been adopted. That, too, could be given twice in twenty-four hours to obtain adequate blood levels. It had an experimental activity and clinical effectiveness of the same order as the best of the sulphonamides at present in clinical use, and was well tolerated by patients both when the drug was given in high dosage over a short period and when administered continuously for months. A novel feature was that solutions of its sodium salt were neutral in reaction, a factor that should be advantageous in both parenteral administra-tion and topical application. Turning to antibiotics, the speaker

said that one of the disadvantages of

benzyl penicillin or penicillin G was the inadequate blood level secured after oral administration, owing to partial destruction of the antibiotic in the gastro-intestinal tract. That difficulty had been overcome by the introduction of phenoxymethyl penicillin or penicillin V, which was stable in the acid gastric contents with resulting blood levels adequate for the treatment of other than grave infections. The addition of a side chain to 6-aminopenicillanic acid resulted in a peni-cillin providing rather better blood levels than penicillin V. That com-pound had been launched by Beecham Research Laboratories, Ltd., under the name Broxil. Sometimes known as penicillin B, its pharmacopæial name was phenethicillin.

Reactions to Penicillins

The penicillins G, V and B each suffered from the disadvantages that they might provoke in some individuals reactions of an allergic or anaphylactic character. With penicillin G those reactions had sometimes proved fatal. Moreover, the compound was destroyed by the enzyme penicillinase, which was produced by a number of bacteria in-cluding penicillin-resistant strains of staphylococcus, though penicillinase production was not the only cause of penicillin resistance, since some organisms insensitive to penicillin did not produce the enzyme. That property of penicillinase could be utilised in the treatment of patients exhibiting reactions to penicillin, and had been made commercially available in this country by Burroughs Wellcome & Co. as Neutrapen.

In recent times an increasing pro-portion of staphylococci isolated in hospital had been found penicillin-resistant. Alternative antibiotics, notably erythromycin, the tetracyclines and chloramphenicol, were available for treating patients infected with such staphylococci, but resistance to one or more of those other antibiotics was being increasingly found. The alternative antibiotics had, too, their own disadvantages, such as toxicity or difficulty in administration. That applied particularly to such antibiotics as vanco-mycin and ristocetin. Since the isolation of 6-amino-penicillanic acid, and the preparation from it of penicillin B, the promise that a peni-cillin could be made from it that would be resistant to penicillinase had been realised. That new penicillin was sodium 6-(2,6 dimethoxybenzamine) penicillanate monohydrate, which was supplied under the trade name Celbenin. It had been found to be inactivated by *Bacillus cereus* penicillinase. though at a much slower rate than penicillin G. It was inhibitory at suitable concentrations to staphylococci capable of growing in high concentra-tions of penicillin G, V or B. A concentration of 2 microgm. per mil represented an activity of the order of one-hundredth that of penicillin G. The new penicillin was a powerful inducer of staphylococcal penicillinase. It was

soluble in cold water giving a neutral solution, and less heat-labile than penicillin G, but was unstable to acids and therefore had to be administered parenterally. Inhibitory levels were detectable in the blood for 3-4 hours after injection. Individuals sensitive to benzyl penicillin had proved sensitive also to it. The necessity for admini-stration by injection, and that at fairly frequent intervals, was clearly a disadvantage and would largely limit the use of the compound to hospital practice, but it was in hospitals that those strains of staphylococcal resistant to the other penicillins were chiefly penicillins were chiefly encountered.

There was little new to be said concerning streptomycin, but its toxicity risks needed emphasising. The tragedy was that in some cases the antibiotic was used without justification. It could be stated dogmatically that there was no place in therapeutics for dihydrostreptomycin either alone or streptomycin.

The dangers of blood dyscrasias still set a severe limitation on the use of chloramphenicol. Many clinicians considered that its use should be limited to the treatment of typhoid, for which it was the most effective agent available, and for the treatment of meningitis due to Hæmophilus influenzæ, since the organism was sensitive to it, and alone among the antibiotics chloramphenicol passed readily across the blood-brain barrier, with resulting high concentrations in the cerebrospinal fluid.

Antituberculous Drugs

The thiosemicarbazones had never come into other than limited use in this country for the treatment of tuber-culosis. The standard treatment of tuberculous infections was by means of streptomycin administered parenterally, with either isoniazid or PAS, or both, administered orally to prevent or delay the emergence of resistance to the agents used. Streptomycin and PAS each had disadvantages, and there had been for some time a need for another drug effective orally, low in toxicity, and not showing cross-resistance with the other agents. After clinical trials organised by the British Tuberculosis Association, the results of which were shortly to be published, Trescatyl brand of ethionamide was being offered for the treatment of pulmonary tuberculosis. It was undergoing clinical trial also for the management of genito-urinary and other forms of extra-pulmonary tuberculous infection. Ethionamide was active on strains of the tubercle bacillus resistant to isoniazid, streptomycin, PAS, pyrazinamide, cycloserine and viomycin but, as with all antituberculous agents at present available, its use alone in the treatment of tuberculosis caused resistance to develop rapidly. It was therefore essential to give a suitable companion drug or drugs. The causative organism of tuberculosis was a bacterium, but as one of the mycobacteria it had characters resembling those of the fungi. For the treatment of true fungal infections

three antibiotics were now available in this country. Infections by the "thrush" fungus (Candida or Monilia albicans) could be treated with an antibiotic, nystatin, also known as mycostatin and fungicidin. That insoluble substance was applied topically to the mouth as a suspension and to the vagina as tablets. It was administered orally for intestinal and systemic moniliases, though absorption was moniliases. though absorption incomplete.

Amphotericin B (B.P. approved name) had recently been made available in this country under the trade name Fungizone. It was soluble, and was administered intravenously against various deep-seated mycotic infections.

The third antifungal antibiotic, griseofulvin, provided the dermatologist with the most valuable addition to his armamentarium for a number of years. Griseofulvin was unique in that, by systemic administration, a concentration could be reached in the keratinised tissues of the skin, hair and nails that would inhibit the growth of cerfungi—the dermatophytes—that could invade those structures. It was postulated that griseofulvin was carried via the blood stream to the cells des-tined to produce the keratin of skin, hair and nails and that when those cells become fully keratinised they would incorporate the griseofulvin, thus rendering the keratin itself resistant to further fungal invasion.

In 1956 a compound acinitrazole, marketed for the systemic treatment of trichomoniasis, had enjoyed a brief popularity until venereologists demon-strated its ineffectiveness. Neverthcless it had pointed the way to a more active compound which was now available as 1 - β -hydroxyethyl-2-methyl-5-nitroimidazole (Flagyl brand of metronidazole). On present evidence it would appear that 85 per cent, of cases of tricho-monal vaginitis could be cured with a

single course of twenty-one tablets.

UNITED STATES DEVELOPMENTS Papers read at medical chemistry symposium

THE revelation that a simple chemical compound, hydroxylamine, which has been known to chemists for years, has helped prevent induced epileptic seizures in laboratory animals, was among the new research advances disclosed at the American Chemical Society's National Medicinal Chemistry Symposium held in Kingston, Rhode Island, recently. Also reported at the meeting were a new advance in allergy research which promises to facilitate the isolation of active agents in pollens; how antibodies help in combating diseases; the mechanism by which plants produce colchicine and mescaline; and the discovery that the body hormone, aldosterone, is about 250 times as potent a heart stimulant than the most effective drugs now known. Discussing the rôle of hydroxylamine in preventing induced epileptic seizures in test animals, Dr. Eugene Roberts of the City of Hope Medical Centre, Duarte, California, said that the simple chemical produces this anticonvulsant effect and also raises the level of a body chemical called GABA (gamma-aminobutyric acid) in the animals' brains. The correlation between the anti-convulsant effect and raised GABA brain levels is now the subject of intensive study, he said.

Alkaloidal Synthesis in Plants

Fed on radioactive "soup," autumn crocuses have been made to reveal how and why they manufacture colchicine. In addition, reported Professor Edward Leete, University of Minnesota, at the symposium already named, several novel techniques, including the use of cotton wick and radioactive chemical solu-tions, have also clarified how the peyote cactus makes mescaline and how the poppy makes morphine.

The formation of colchicine depends upon the amino acid, phenylalanine, and mescaline has been traced to another amino acid, tyrosine.

That phenylalanine was an essential ingredient in the structure of colchicine was demonstrated by threading a cotton wick through the outer layers of the

bulb and placing the ends of the cotton in a radioactive solution of the amino acid. The solution was taken up rapidly by the plant. "Systematic degradation of the alkaloid colchicine showed that all the activity was located on one car-bon atom," Dr. Leete said, "strongly suggesting that phenylalanine is one of the precursors of colchicine." Tyrosine—an amino acid that is an important growth factor in human nutrition-was previously suspected of playing a vital rôle in the production of mescaline from the pevote cactus. Verification from the peyote cactus. was obtained in work described by Dr. Leete by injecting a radioactive form of the chemical into the cactus. The mescaline subsequently isolated proved to be radioactive. Similar methods showed that tyrosine also was a precursor for morphine produced in the opium poppy. A living plant of Rauwolfia serpentina was fed with radioactive tryptophan; the alkaloids isolated from the plant were radioactive. Degradation of aimaline, a compound with some of the structural features of reserpine, indicated that tryptophan was a direct precursor of that alkaloid.

Heart Stimulant

A body hormone which in laboratory tests has proved to be 250 times as potent a heart stimulant as the most effective drugs known, was reported by Dr. Ralph D. Tanz, Western Reserve University's School of Medicine. In experiments with isolated heart tissue, the hormone aldosterone caused muscle contraction in the same way that digitalis and other heart drugs do, he said. But the amount needed was only 1/250th as much as ouabain—one of the most powerful heart stimulants known. Aldosterone's chemical struc-ture could serve as a model for more efficient drugs to treat heart disease, said Dr. Tanz, an authority on the effects of various chemicals on heart tissue. The hormone itself seems to be important for normal heart functioning, and a deficiency may be associated with the heart failure that can accompany later stages of suprarenal hypofunction (Addison's disease).

A method of increasing the ability of an animal to handle diets excessively high in fats and cholesterol, the pre-sence of which is believed by some doctors to have a bearing on heart disease, has been developed by Dr. N. R. DiLuzio (associate professor of physiology, University of Tennessee). The procedure, which is concerned with a new concept in the control of fat metabolism, involves the intravenous injection of an extract of common yeast. Dr. DiLuzio injected experimental animals with a yeast extract to stimulate one type of cell known as reticulo-endothelial, or RE cell. When injected with the yeast extract, a profound increase in the RE cell number, size and function occurred in the treated animals. The animals were fed a high-fat, highcholesterol diet which has been shown to produce spontaneous heart attacks. The untreated animals showed excessively high liver and blood fats. increasing the activity of RE cells, Dr. DiLuzio prevented to a considerable degree the accumulation of various fats in the liver and blood. The study establishes a rôle of RE cells in fat and cholesterol metabolism in that these cells possibly alter the fat molecule in such a way that it is more easily removed from the body. Efforts are now under way to determine if this new experimental procedure is beneficial in preventing aortic lesions and heart attacks in various kinds of experimental ani-

Vitamin K in Cellular Growth

Vitamin K is an essential link in the respiratory process of living cells and takes part in the chemical capture of the energy necessary to life, according to Dr. Arnold F. Brodie (Harvard Medical School department of bacteriology and immunology, Boston, Massachusetts). Deprived of the vitamin, cells cannot use oxygen in the normal way to break down foodstuffs, but instead continue to grow through a fermentation process which has been observed in cancerous tissue of mammals. The necessity of vitamin K in preventing that abnormal growth was demonstrated in cell studies of a micro-organism which closely resembled the tubercle bacillus, Dr. Brodie said. The research. which increases the understanding of the mechanism by which cells obtain and store energy, could ultimately be helpful in combating metabolic diseases and in developing compounds capable of blocking cancer growths. Vitamin K, previously known to be an important growth factor and to be necessary for the proper clotting of the blood, was pictured as a "transformer" shuttled negatively charged particles of electricity to and from other vital com-pounds involved in oxidative phosthrough phorylation—the process which cells were able to store energy. The "energy rich" compounds in turn provided the cell with the fuel needed to build its constituents, according to the newly uncovered evidence. Explaining his research, Dr. Brodie said that intense rays of light capable of destroying vitamin K without affecting tissue structure were used to alter the cell metabolism.

PROPRIETARY ARTICLES TRADE ASSOCIATION

Quarterly meeting of council

THE quarterly meeting of the council of the Proprietary Articles Trade Association was held on October 13, with the president (Mr. J. F. Boucher) in the chair. Meetings of the three sections preceded the full council meeting. The president welcomed Mr. C. H. Foster (chairman, retail section) on his recovery from an operation which had prevented his attendance at the previous meeting.

On the motion of MR, H. Moss, the council agreed that a message of cordial greetings and goodwill should be sent to Dr. John Dargavel and the executive of the National Association of Retail Druggists on the occasion of the opening session, at Denver, U.S.A., of the annual N.A.R.D. convention. Mr. Moss reminded the council that, at recent meetings of the convention, he and the secretary (Mr. Chapman) had been guest speakers and had received the warmest of welcomes and hospitality.

Price Maintenance Inquiry

It was formally reported that the Association had submitted to the Board of Trade inquiry into resale price maintenance a statement of facts designed to ensure that the inquiry had adequate general information relating to the practice of resale price main-tenance in the pharmaceutical trade and industry, together with an expression of views based on more than sixty years' experience of the subject in the trade and industry which the Associa-tion represented. The terms of the tion represented. statement had been approved by the executive committee and endorsed by each section of the council, and the inquiry had been asked to give careful consideration to its contents and had been informed that the council would be prepared to supplement the statement by oral evidence.

The council were informed that, from the information supplied to the secretary by members of the Association, it appeared that a representative number of manufacturers, wholesale and retail members had completed their respective questionnaires and re-turned them to the Board of Trade. The council approved proposals relating to an educational campaign on behalf of the principles and practice of price maintenance which would be initiated at the appropriate moment.

THE SECRETARY reported that membership in the retail section was being maintained as a result of recent approaches to lapsed members, but there was still room for improvementparticularly at the present important juncture in the Association's affairs. The revival of interest in the question of resale price maintenance was shown by the fact that about a dozen meetings for discussion of the subject had taken place in recent months or were pending. Those meetings had been, or were to be, addressed by representatives

or members of the Association.

The council received and approved the report of a subcommittee appointed to take the necessary steps in connec-

tion with office accommodation which the Association would be requiring as a result of the notice from the University of London that the existing ten-ancy agreement for 43 Gordon Square would not be renewed.

The council authorised the necessary arrangements to be made for the council election. The following members are due to retire on December 31 and are eligible for re-election: Manufacturers' Section, Thos. Christy & Co., Jacurers Section, Thos. Christy & Co., Ltd., Horlicks, Ltd., Johnson & Johnson (Gt. Britain), Ltd., Vick International, Ltd.; Wholesale Section, Ayrton, Saunders & Co., Ltd., Thos. McMullan & Co., Ltd., Raimes, Clark & Co., Ltd., Sangers, Ltd.; Retail Section, T. C. Neville Booth, H. G. Moss, G. H. Walker, J. F. Watts.

The council agreed that the next meeting of the sections and of the full council would be on January 12, 1961.

At a luncheon the same day, MR. H. W. PALMER (president, Association of British Pharmaceutical Industry, and managing director, Glaxo Laboratories, Ltd.) addressed the council on "Price Maintenance and the Health Service." He said: "It is with no sense of a false judgment in this matter that I speak to you from a full conviction that what is now at stake is something for which we, and you, have to fight and fight very hard. It is obvious in the climate created by the Restrictive Trade Practices Act and all that followed from it, that price maintenance by collective action is as dead as the Dodo and will so remain until a new legislative climate comes into being—if it ever does. What we are now concerned with is an entirely different pro-position and one which I feel, and members of my Association feel, is of the utmost importance. My Associa-tion is concerned essentially that nothing happens to disturb the ability of its members to render those services to the National Health Service without which that Service would in fact collapse. If I might summarise the recent document, which we have put into official quarters [the resale price maintenance inquiry], it really boils down

to this—so complex is the job to be done to make sure that the prescribing doctor has at his disposal, quickly through the appropriate channels, the drug of his choice, that we cannot conceive of a decent job being done unless manufacturers, wherever they may be, are enabled to protect the margins accruing both to the retail and the wholesale trade on those transactions. If, in fact, the trade is not assured in that fashion of an adequate return we do not see how the detailed and intricate service which has now to be main-tained can, in fact, be underpinned and improved."

He had reached the same conclusion himself but from an entirely different point of view. Over the years he had seen in action a number of salesmen, of a variety of personal attributes, achieve their results by a variety of effects and ways. Each of them had made a particular impact on the retail trade, and one thing that had been obvious was the fact that in companies of standing in the pharmaceutical industry and trade, retail and wholesale, that impact was very much an expression of their own conception of the selling job to be done, and equally an expression of the manufacturers' conviction that at the time he put on the market a new line of goods he had to determine clearly what he regarded as a worthwhile and adequate return to the retail and wholesale trade for getting that product to the ultimate consumer.
"I think it is that sort of angle

which makes me feel more convinced today than I have been in times past of the necessity of the manufacturer retaining the powers which he has at the moment, to see that the policy he wants to put over is accompanied not merely by a fair deal to the ultimate consumer but a fair remuneration to the channels of distribution through which he must go if, in fact, his goods are to serve the purpose which he envisages when he first makes them available. I wish you success in your endeavours to keep the flag flying, and am sure that we are behind you in those endeavours, and wish you well in your pursuit."

PHARMACY PRIZE-GIVING AT GLASGOW

First individual ceremony

THE first special meeting for the presentation of prizes to students of the School of Pharmacy, Royal College of Technology, Glasgow, was held at the College on October 11. Explaining the situation, Dr. S. C. Curran (principal of the College) said that in the past the prizes awarded in the School were presented during the meeting for the pre-sentation of diplomas and that had expanded with the years so that the actual presentation of prizes tended to become a minor part of the overall ceremony. In view of that it was thought wise for the presentation of prizes to have a separate special meeting as part of the actual activity of the School of Phar-

Dr. Curran went on: "Pharmacy is a subject of long standing in this College and, so far as this actual building is concerned, the subject was developed the beginning in evening classes in 1910, but the School itself is of much more ancient lineage and is indeed the lineal descendant of the College of Medicine founded in the year 1800, nearly four years after the foundation of the College in 1796. The foundation of the College followed from the will of John Anderson and it is significant to know that one of the founder members of the College was John Balmano, a druggist, Thus pharmacy was represented in the College from the first days of its foundation, The first professor of materia medica, as pharmacy was called in those days, was appointed in 1828, and there have been professors in that subject performing their duties without a break down to the present day. Although the name of the School and the ultimate aim of the students may have changed, especially during the past forty years, nevertheless the continuity has been preserved in the subject of pharmacy. The Andersonian School of Medicine of the College ceased to exist as a separate entity and is, of course, now merged in the University

"It is itself interesting to know that one of the earlier students was David Livingstone, and Professor Todd has reproduced for me one of the class tickets obtained by Livingstone when he was a student in pharmacy at the College here. by Andrew It is signed Buchanan, M.D., and certifies that Mr. David Livingstone attended the course from November 5, 1837, to April 25, 1838. During the past twenty-five or so years the two subjects which have probably caught the imagination of the public more than any others are those of nuclear physics and chemotherapy. In the discovery and development of the great antibiotics we have witnessed a real revolution in medicine and we are sure that the subject of pharmacy will continue in the future to achieve many successes?

PROFESSOR J. P. TODD (head of the School) then presented his report on school) their presented his report on the 1959-60 session. He said that the session saw the completion of a pro-gramme of reorganisation, and the School of Pharmacy was no longer so entitled, but was now the department of pharmacy. Agreement had been reached with the University that a new Bachelor's degree in food science and a Bachelor's degree in applied bacteriology should be instituted. There would in future, therefore, be Bachelors' degrees in pharmacy, food science, and applied bacteriology, all with a com-mon background of biological science, chemistry, and biochemistry, and it was hoped that the new degrees would become operative in the session 1961-62. To meet the needs of the new departments, considerable expansion in accommodation had taken place which it was hoped would meet the needs until the new building programme was completed and more adequate space became available.

"Last session, we commenced the last of the non-graduating courses in pharmacy and in future only students for the B.Sc degree in pharmacy will be accepted. There is no lack of applicants for the new course and in this present session we are running near to capacity. In all, last session, there were 121 pharmacy degree students and for the last course for the diploma of Pharmaceutical Chemist, there were forty-one students. Various other students taking courses in food science, microbiology and biology totalled thirty. had one student taking a post-graduate diploma in microbiology and five postgraduate engineering students taking courses in biological science in connection with their studies in the development of backward countries.

"The research school was also active;

there were eighteen students working for higher degrees in addition to normal research work of the staff. In that work, we received the support of the Pharmaceutical Society by the award of scholarships and maintenance grants. Our research students were also supported by the D.S.I.R. and by college scholarships."

Mr. C. W. Maplethorpe (chairman of the Pharmaceutical Society's Education Committee), who presented the prizes, said: "Pharmacy today can no longer be regarded as a leisurely profession (as it was referred to in the past). Professional life is becoming increasingly complex and it is now more important than ever before that the young pharmacist should, at the commencement of his career, have a clear picture of his own aspirations and responsibilities." No doubt many of the students were attracted by the opportunities within retail pharmacy, which would allow them to practise their calling independently, or organisationally, in close contact with the people they served. About 80 per cent, of the newly qualified pharmacists would accept posts in general practice, where they could combine a keen sense of vocation with a flair for business administration. "For them, tact, patience and authority

will be as essential as technical skill and professional knowledge." A little over 10 per cent, would enter the hospital services where the requisites for success were a temperament especially suited to administrative tasks and an ability to co-operate with members of other professions. The pharmacist who wished to concentrate his efforts on purely pharmaceutical work would find a hospital appointment a most rewarding career. Rather fewer than 10 per cent, would find employment in the pharmaceutical industry and, in the past, about one in five of the pharmacists with higher academic distinctions had entered industry. Teaching could also provide a satisfying career.

The prizes were presented by Mr. Maplethorpe and were awarded as

follows:-

James Taylor Prizes: Degree I, John Y. Jess; Degree II, Evelyn M. Duncan; Degree III, Anne S. Morrison; Ph.C. I. Andrew McFarlane; Evans Medical Prize in Pharmacy, Anne S. Morrison: Boots Dispensing Prizes, Degree III, Ann D. W. Sellar; Ph.C. I, Andrew McFarlane; Anthony McMillan Memorial Medal, John M. McKendrick: Glasgow Branch Prize, Rosemary Fearon; T. & H. Smith Prize, Margaret E. Hastie.

DINNER-DANCE AT DUDLEY

Chemists' "happy relationship" with doctors

THE happy relationship between the medical profession and the Pharmaceutical Society was stressed at the annual dinner-dance of Dudley and Stourbridge Branch of the Society held in Dudley recently, at which there was an attendance of 170. Miss M. White (chairman) presided. Among the guests were Dr. W. W. Bowie (representing the Dudley division of the British Medical Association), and Messrs. Moseley, Jones and Wilcox (chairmen of the Birmingham and Wolverhampton Associations and Walsall Branch respectively). The guests were received by Miss White in the company of Mr. S. C. Hawkswood (founder-chairman of the Dudley branch) and Mrs. Hawkeswood, and the master of ceremonies (Mr. Jack Powell. The toastmaster was Mr. D. F. Cartwright.

Toasts and a Gift

The toast "The Pharmaceutical Society of Great Britain" was formally proposed by MISS WHITE, who afterwards proposed the toast to the guests. In welcoming the principal guest (Dr. Bowie) she said she was sure such interchange of visits helped enormously in maintaining the pleasant relation-ships which existed between their professions. She also believed that those social occasions helped to strengthen the bond of friendship which existed between themselves and the other branches. After welcoming the representatives of the various business houses, Miss White said that membership of the branch had given her a great deal of pleasure and she would like to offer a personal welcome to their own members and the members of the ladies' section for the flowers they had pre-sented to her. She thanked them not

only for their kindness and friendship but also for their enthusiasm for the interests of the branch. That had made her term of office enjoyable. She had received the wholehearted support of her fellow officers and the members of the committee. Miss White concluded by thanking Mr. and Mrs. Hawkswood for their help and advice. Responding. Dr. Bowie expressed the hope that the Branch would continue to flourish. The relationship between the medical profession and the Pharmaceutical Society was a happy one and the world would be a happier place in which to live if only the same spirit could be engen-dered everywhere. Miss White then presented a brief-case to Mr. Jack Powell in recognition of his work as secretary of the social committee. That was the tenth annual dinner and each year the whole of the arrangements had been carried out by Mr. Powell with efficiency and cheerfulness which made a arduous task appear to be a real pleasure. Acknowledging the gift, Mr. Powell said he was quite sure that any service he had been able to render to the branch over the years was small in comparison with that remarkable expression of their appreciation. His task had been made easier by the help and co-operation he had always received from the officers and committee members and he hoped that spirit would continue for many years to come. A competition in support of the Society's Benevolent Fund realised £23.

N.H.S. STATISTICS

In ENGLAND during June 15,558,283 prescriptions (10,385,687 forms) were dispensed at a total cost of £5,687,591. Average cost per prescription was 87.74d.

ORGANO-PHOSPHORUS POISONING

A note on treatment with P2S

IN current commercial practice a large number of organo-phosphorus preparations are widely used as sprays both in agriculture and horticulture. organo-phosphorus compounds can give rise to toxic symptoms if the safety precautions detailed in the Agriculture (Poisonous Substances) Regulations are not adhered to, and a note on the treatment of organo-phosphorus poison-ing has been prepared by the medical panel of the Advisory Committee on Poisonous Substances used in Agriculture and Food Storage. The compounds used for spraying include amiton; demeton; demeton-methyl; dimefox; Gusathion; mazidox; mipafox; parathion; Phosdrin; phosphamidon; schradan; sulfotep and TEPP.
Furthermore the less toxic, unscheduled materials, could themselves cause materials, could themselves cause poisoning if misused after the unsafe use of a more toxic organo-phos-phorus compound had led to symptomless overexposure.

The organo-phosphorus compounds in man depress cholinesterase enzyme activity. Acetylcholine accumulates at the autonomic synapses and at the endings of the post-ganglionic para-sympathetic and the skeletal efferent nerves. The toxic effects resemble those of physostigmine and neostigmine, but with some compounds the effect may be much more persistent, lasting for a day or two, rather than hours. Successive hours or days of unsafe use may cause progressive lowering of the cholinesterase enzyme level. The first symptoms of intoxication are usually anorexia and nausea, often with mental confusion and a sense of unreality. They may be experienced during exposure or up to eight hours later. Vomiting, cramp-like abdominal pain, excessive cold sweating and salivation soon follow. Giddiness, apprehension and restlessness may also be noticeable.

Treatment

Whenever possible a blood sample should be obtained before starting treatment. Contaminated clothing should be removed and exposed areas of skin thoroughly washed with soap and water. At the same time, an injection should be made of atropine sulphate, in the high dose of 2 mgm. (1/30 grain), by the intramuscular or subcutaneous route. In mild cases this nay be enough in itself. If the sympoms are not promptly relieved or if he condition of the patient deteriortes, e.g. with the development of ncipient convulsions or respiratory lepression, further atropine is re-juired at frequent intervals (10-30 ninutes) and a specific cholinesterase eactivator should be given. The use of such an agent becomes a matter of irgency if the patient has failed to espond even after 10 mgm. of atroine, as the probability is that, if a pecific reactivator is given more than 2 hours after the onset of symptoms. will not be so effective.

Under no circumstances should tropine injections be delayed until holinesterase reactivators are avail-

able, but should be continued until signs of atropinisation occur, i.e. dilated pupils, dry mouth and rapid pulse. The patient should be kept fully atropinised and under observation for at least 24 hours, preferably in a hospital and if symptoms return after the cessation of atropine treatment further atropine should be given. Persons suffering from organo-phosphorus poisoning tolerate more atropine than do normal persons. In severe cases, very large amounts, 100 mgm. or more, of atropine may be required over the full period.

It is essential that the cholinesterase reactivator should be given intramus-cularly or intravenously as early as possible and preferably at the same time as the atropine. Two such agents which is 2-hydroxyimino-methyl-N-methyl pyridinium iodide, and P2S which is the methane sulphonate equivalent of PAM, and is more soluble than the iodide.

The recommended initial dose of P2S is 1 gm, dissolved in 5 mils of water for injection and given either intramuscularly or intravenously. Further 1-gm. doses of P2S (or P2AM) may be necessary at intervals of 3-4

P2S tends to produce small quantities of cyanide when heated in aqueous solution. Solid P2S decomposes when heated at 150° C. It cannot, therefore, be sterilised by heat but Seitz filtration has proved satisfactory. At room temperature aqueous solutions are reported to have been stable for three months provided that the ph is kept at 4. The solid appears to be quite stable.

Emergency Supply Addresses

In cases of emergency supplies of P2S may be obtained from any of the following centres. Telephone numbers are given in parentheses.

Region 1. Newcastle

The Pathological Laboratory, Cumberland Infirmary, Carlisle (Carlisle 22332); The

Infirmary, Carlis'e (Carlisle 22332); The Dispensary, Newcastle General Hospital (Newcastle 35211).

Region 2. LEEDS
Castle Hill Hospital, Cottingham, Hull (Cottingham 47372); Seacroft Hospital, York Road, Leeds (Leeds 648164).

Region 3. SUPPLIFIE DESCRIPTION OF THE Property of the Pr

Region 3. SHEFFIELD

Nottingham City Hospital, Hucknall Road, Nottingham (Nottingham 63361). Region 4. EAST ANGLIA

Regional Transfusion Centre, Government Buildings, Brooklands Avenue, Cambridge (Cambridge 56912, Weekdays 8.30 a.m. to 5.30 p.m. Saturdays 8.30 a.m. to 12.30 p.m. Other times Cambridge 56913); Norfolk and Norwich Hospital, St. Stephen's Road, Norwich, Norfolk, NOR 53 A (Norwich 21311).

Region 5. NORTH WEST METROPOLITAN dgware General Hospital (Edgware Edgware

Region 6. NORTH EAST METROPOLITAN North Middlesex Hospital, N.18 (Edmonton 3071); Che'msford and Essex Hospital, London Road, Chelmsford (Chelmsford 3481).

Region 7. SOUTH EAST METROPOLITAN

South London Transfusion Centre, South East Sub-Dept., David Salomon House, Southborough, nr. Tonbridge (Day: Southborough 1480, Night: Maidstone 4463 and 4660); Kent and Canterbury Hospital, Ethelbert Road, Canterbury (Canterbury 2291).

Region 8. SOUTH WEST METROPOLITAN

South London Transfusion Centre, Stanley Road, Sutton, Surrey (Vigilant 8221).

Region 9. Oxford

Northampton General Hospital (Northampton 4680); Royal Berkshire Hospital, Reading (Reading 81721),

Region 10. SOUTH WESTERN

Ham Green Hospital, Bristol (Pill 31165); Pathological Department, Royal Devon and Exeter Hospital, Exeter (Exeter 73519, when laboratory closed Exeter 72261; Scott Isolation Hospital, Plymouth (Plymouth 64311); Pathological Department, Royal Cornwall Infirmary, Truro (Truro

Région 11. WALES

Cardiff Isolation Hospital, Cardiff (Cardiff 21466); West Wales General Hospital, Glangwili, Carmarthen (Carmarthen 6733); Aberystwyth General Hospital (Aberystwyth 374); Caernarvon and Anglesey General Hospital, Bangor (Bangor Maelor General Hospital, Wrexham (Wrexham 3512).

Region 12. BIRMINGHAM

The Dispensary, Worcester Royal Infirmary, Worcester (Worcester 27122); The ary, Worcester (Worcester 2/122); The Dispensary, County Hospital, Hereford (Hereford 4201); The Dispensary, Royal Salop Infirmary, Shrewsbury (Shrewsbury 2056); The Dispensary, Staffordshire General Infirmary, Stafford (Stafford 753); The Dispensary, Selly Oak Hospital, Birmingham (Selly Oak 1361).

Region 13. MANCHESTER The Dispensary, Manchester Royal Infirmary (Ardwick 3300).

Region 14. LIVERPOOL

Fazakerley Hospital, Longmoor Lane, Liverpool, 9 (Aintree 2342). Region 15. WESSEX

Royal Portsmouth Hospital, Commercial Portsmouth (Portsmouth 2103); The Dispensary, Royal South Hants and Southampton Hospital (Southampton 26211); Royal Victoria Hospital, Shelley Road, Bournemouth (Boscombe 35201).

OVERSEAS NEWS **FORMOSA**

A Company to Make **Parmaceuticals**

THE formation of a new company to produce pharmaceuticals and animal feed supplements for the Taiwan (Formosa) market has been announced. The new enterprise, Cyanamid Taiwan Corporation, is jointly owned by the American Cyanamid Co., which holds 55 per cent, of the capital stock, and Taiwan Sugar Corporation, Manufacturing operations are to be conducted at Hsin-Chu, Taiwan, approximately 50 miles south-west of Taipei, where Taiwan Sugar has been producing antibiotics for use in animal feed supplements. Plans are in hand for expansion of the existing plant, which is expected to be in full production within eighteen months.

C. & D. Quarterly Price List, September 1

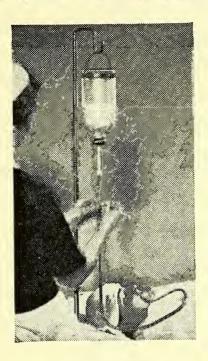
THIS WEEK'S CHANGES ARE GIVEN SEPARATELY AT END

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	perfume	trial	45	0	22	3		6		bobines 12 060	50	0ea	24	4 gea 10	2 0	
		$^{124\mathrm{A}}_{124\mathrm{V}}$	$\frac{6}{10}$	3ea 6ea	3 5	1ea 2ea	21	6 0		A. & P. (104 BP) infants' powders	15	0	3	9 1	11	
	Actifed (208 BW)							0 4-5		Aramine (837 MSD) 1 mil 12	30	0ea		. 45	0	
	compound linetus	4 oz 20 oz	$\frac{48}{200}$	0 0				0 †s7 0 †s7		Arrid (1003 PP)	20	0ea		. 30	0	
	syrup	4 oz	48	0			6	0 †s7		roll-on refill	27	0	6	9 3		
	tablata	20 oz	200	0				0 †s7		Asmapax (70 Aspro) 250	420	0		. 52	6	†84 B
	tablets Adaptoplast (339CG)	500	1040	0		1	30	0 †s7		Atkinsons (76 Atkinson) men's range						
	dressings, first aid	M286	7	6			_ 1	01/2		after shave lotion6540	64	0	31	2 10 7 12		
	Adcortyl-A (1176 Squib	M285	15	0		• •	1	9		Cologne6554 crystal after shave6534	75 64	0	36 31	7 12 2 10		
	ointment	50 gm	31	9ea			47	7½ TS		pre-electric shave6542	64	ő	31	2 10 2 10 7 10		
	with Graneodin	50 gm	35	6ea				3 TS		shaving bowl6537	72	0			6	
	Adwin (266 Clarnell) paediatric	4 oz	30	0			4	5		refill6538 cream lather 6530	$\frac{36}{45}$	0		9 5 0 6	6	
	paodataviro	16 oz	108	0						brushless 6532	45	0	11	0 6	6	
	tablets	100 500	$\frac{52}{216}$	$0 \dots 0$		• •		8		tale	45	0	21 1	1 7	6	
	Albion (339 CG)	300	210	0		• •		•		capsules 30	49	6		. 6	9	
	cotton wool	. ½ oz	4	3	-					Baghari (Piguet (1201 Supervite))					
		1 oz 2 oz	5 8	4 ··· 5 ···						Balto (727 Lane)	13	0ea	6	6ea 26	9	
		4 oz	14	2						foot balm 1½ oz	17	11	4	6 2	6	
		8 oz	24	6					Delete	2 oz						
	Aldactone (1121 Searle)	16 oz	3	8‡ea		• •				Bandit (Piguet (1201 Supervite)) bath oil 3 oz	13	0ea	в	6ea 26	9	
	tablets 100 mgm	. 20	61	8ea			92	6		Barbevite (1348 JW) 5 oz	48	0				18184
	Aldis (884 NB) beaded	100 screen	289	10ea		4	134	9		20 oz 80 oz	15 53	0ea 0ea			•	†8184 †8184
	"Square 40"						119	6		Barbidex (70 Aspro) 30	42	0		. 5		18184
	"Square 50"		• •				159	6		250	294	0			9	†8184
	Aldocorten (262 CIBA) ampoules	1 mil	27	4ea			41	0 TS		basket of Flowers (1070 Windson tollet soap2112	58	0	13	9	7	
	Alficetyn (34 A&H)							3 TS			gro		gros			
	capsules 250 mgm	·· 12 150	$\frac{162}{107}$	0 2ea		1	20 160	9 TS		Beauti-Lash (385 DG) mascara applicator	75	0	37	6 12	6	
		1060	1034	10ea			552	3 TS		refill	46	Ö		0 7		
	cream dusting powder	loz 5 gm	$\frac{40}{52}$	$0 \dots 0$		• •	5 6	0 TS 6 TS		Becomel (324 Crookes) elixlr 4 oz	26	0		. 3	3	
	ear drops 5%	15 mils	84	0		• •	10	6 TS		8 oz	40	0		. 5	0	
	10%	5 mils	62	0		• •	7	9 TS 6 TS		Becosym (1074 Roche)	360	0		. 45	0	
	powder non-sterile	5 gm 25 gm	244 100	0 2 ea		1	30 150	3 TS		with B12 ampoules 6	84	0		. 10		
		$100~\mathrm{gm}$	373	8ea		5	560	6 TS		Basaka mia (104 BB)	480	0		. 60	0	
	suspension	60 mils	122	0		• •	15	3 TS		Beecham's (104 BP) pills	15	0	3	9 1	11	
	(distributors 973 I							1			33	Ö	8	3 4	3	
	tablets 20 mgm All Fours (488 Fylde)	20	2	5lea		• •	3	8 †s7		powders	15 31	0 2		9 1		
	mixture	8 oz	13	6	3	41/2	2	0 †			107	0	26	9	3	
	Aludrox 8A (1352 Wye suspension	th) 12 oz	72	0	18	0	9	6 †s1s4A		tablets	doz 6	60's 0	doz 6	30 °s 9 1	11	
	tablets	50	47	3	11		6	3 †s1s4A			31	2			Ö	
	Ambas Calains (FOT Ca	250	168	0	42	0	22	2 †s1s4A		Benbows (506 Gerhardt) roundworm tablets	15	0		1	9	
	Ambre Solaire (525 Go aerosol	nuen)	91	0	45	6	15	0		super vitamin condition	15	0	•	1		
	Amphetone (1348 JW)		60	0						tablets 10	8	6		1		
		20 oz 40 oz	108 16	0 0ea						tapeworm tablets	21 15	0		1		
		80 oz	28	6ea						Benerva (1074 Roche)						
	Anabolex (769 LH) tablets 25 mgm	250	160	0ea				†s4B		tablets 300 mgm 25	100 300	0		12		
	Anapolon (649 ICI)					• •	•••	124D		Better Off (385 DG)						
	tablets 5 mgm	${100}$	228 840	0		• •	28 105	6 †s4B 0 †s4B	-	for the face for the legs	66 54	0	33 27	0 11		
		50 0	340			• •	510	0 ts4B		Biotrase (769 LH) 35 gm	45	ő	11		6 0	
	Andre Philippe (48 AT	P)						·		Bipepsogin (1152 SK)	16	6	4	1	2 3	
	eau de cologne/laver men's roll-on deodor		9 16	0 10	4	6 21	1 2	6		Blacfrutex (1351 WLU)	- 11	2	2	0.8		
	perfume story book		18		9		3	0		cough linetus	11 17	3 5	4		1 10 2 9	
	liver salt	4 oz	16	0	4	0	2	1		Body Mist (303 County)						
		8 oz	25	0	6	3	3	3		roll-on refill spray	23 23	4	11 11	8	3 9 3 9	
	diabetic Angel Touch (256 CPI	8 oz	29 17		7 8		3 2	11			40		20		6 6	
	Augus towall (200 CF1	bottle	23	8	11	10	3	9		B-R (1023 Radlol) healing jelly 2 oz	22	6	5	71	3 0	,
elele	Antilope (Well) (960 A	tube	19	0	9	6	3	0		Breck (1169 GS&S)				•		
	eau parfumee 2	oz 080	9		4	71e	a 19	6		creme rinse $2\frac{1}{2}$ oz 4 oz	27 35	6	13 17		4 7 5 10	
		oz 081 oz 082	16 26		8 12		a33	6		Bristow's (303 County)	99	U	11	U	0 10	
		oz 083	46		22		92	6		star spray	80	0	40	0 1	2 6	í
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		oz 016 oz 015	14 26		12		a 53	ŏ				doz	3 d	oz		
]	l oz 014	42	0ea	20	6ea	85	0		24	39		17		5 6	
	handbag coffret	2 oz 013 SE	75 15		36 7		150	0		48 72	68 86		17 21		2 0	
	diffusette }	oz 016D	17	6ea	8	6ea	35	Ò		Bronnley (194 Bronnley)						
	refill	oz 015D oz 015R	29 26				58	0		after shave cream 209 lotlon 2½ oz 201/2	33 25		16 12	3	5 9	3
	4	oz 012	135	0ea	65	10ea	270	0		5 oz 201	45	6	22	2	7 €	3
	de luxe bottle in co	tret 1 oz	90) Oea	43	10ea	1180	0		baby lotion	20 17		4	2	3 0	
	"Secret de Venus"	oz 060B	20		10		42	0		powder 3 oz 770	17	0	4	2	2 6	3
	1	oz 061 oz 062	37 67			3ea	3 75 4135	0		bath crystals 2 lb 400/2 4 lb 400/4	44 75		21 36		7 6	
		oz 063	127					ŏ		salts apothecary jar 436	51		24		8 6	

omoor 12, 12 o							
bay rum 2½ oz 207/2 207	22 3 34 6	10 9 4 2 16 10 6 3		bobines 12 060 Cassells (Dr.) (104 BP)	50	0ea 24 4 dea 102 0	
beauty Cologne 2½ oz 1027/80	54 0	26 4 9 6		tablets		9 4 3	
5 oz 1027/81 bath essence	76 0	39 0 13 6		coslite (315 Crater) electric blanket control		8 9	
2½ oz 1027/82 5 oz 1027/83	54 0 76 0	26 4 9 6 37 0 13 6		Ceetherm (315 Crater)	••	10 6	
hand lotion 5 oz 1027/84 talcum powder 1027/85	39 6 24 6	18 9 7 0 12 0 4 3		electric blanket control Celbenin (1393 BRL)		29 6	
bath cubes (6) 1027/86 (12) 1027/89	28 6 54 0	13 11 5 0 26 4 9 0			325		TS
brillantine $2\frac{1}{2}$ oz $206/2$ 0 0 0 0	22 3 34 6	10 9 4 2 16 10 6 3		Cephos (104 BP) 100 1			TS
honey and flowers 2½ oz 208/2	22 3	10 9 4 2		powders	31	0 3 9 1 11 2 7 9 4 0	
5 oz 208 original oatmeai cream 253/1	34 6 18 6	16 10 6 3 9 0 3 3			doz 60		
pine bath cubes (6) 253/2 2022/6	38 0 19 0	18 6 6 6 4 3 3 3			loz 12		
essence 10 oz 902 pre-electric shave lotion	56 9	29 8 9 6		tablets	31	0 3 9 1 11 2 7 9 4 0	
200/2 200	25 3 45 6	12 3 4 3 22 2 7 6			170 doz 48	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
shaving soap bowl 205 refill 205/R	58 0 34 0	14 2 6 6 8 3 5 0					
stick	20 0 10 3	4 11 2 9 2 6 1 6		Check (665 JS) cream 271 spray 269		0 3 5 2 0 8 11 0 3 9	
baby toilet (3)1030	41 0	10 0 6 0		Chesties (1215 Teasdale) te 5 ib	3	4 111 6	
bath ball1008 beauty visitors (6) 1027/V	57 0 42 0	13 8 6 6 10 6 6 6	-	Chilton (257 Chilton) Sportsman electric shaver		57 6	
toilet 1027/T bath 1027/8	10 6 20 0	2 7 1 8 4 11 3 0	j	Acculux rechargeable torch illuminated magnifler	::	42 0	
colossal 1027/C lemon tollet 601	51 6 11 6	12 7 6 0 2 10 1 9		angie holder Accuflash	••	10 0	
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marbles (34) 434 melon 603/R	49 0 110 0	11 11 7 6 26 10 16 0		screen plate throat spatula kit with stand	ı ::	12 6	
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		500	29	6ea			TS		Elastoplast (1155 S&N)					
		100 500	$\frac{14}{62}$	3ea 8ea			\mathbf{TS}		first aid dressings $3 \times \frac{7}{4}$ in 100 11400	114	0		13	3
	Cravens (316 Craven) best barley sugar 5	lh	13	4ea			10 qtr		waterproof $3 \times \frac{7}{8}$ in 100 12400	114	0		13	3
	best English mints 5	lb lb		10½ea 2ea			9 qtr 0½ qtr		$\begin{array}{c} \text{airstrlp} \\ 3 \times 7 \text{ in } 100 \\ \end{array}$	171		••	20	0
	blackcurrant pastilles 1	lb	10	3		1	0 qtr		Emir (350 Dana)		0			
	Bllx licorice pastilles 6		$\frac{19}{16}$	8ea 0ea			0 gtr 10 gtr		perfume trial 129A	45 6	0 3ea		7 a 12	6
	glucose lemon barley 5	lb lb	10 11 1	8ea 10lea	• •		10 qtr 9 qtr		toilet soap (3) 508	10 6	6ea 0ea	5 2e 1 6e	a 21 a 10	0
	menthol and eucalyptus BPC 5		16	5ea		1	0 qtr		Enavid (1121 Searle) tablets 10 mgm 20	31	0ea		46	6 †s4B
	Creme Simon (317 CS)								50	69	10ea	::	104	9 †s4B
Delete	Crookes (324 Crookes) B-cor	jar mplex	45 elixii		22 6 es	7	6		Endoxana (1305 WB) 250	323	3ea	••		10 †s4B
	Cryogenine (49 AF) tablets, 0.25 gm	10	20	0	5 0	2	8		tablets 50 mgm 50 250	$\frac{22}{100}$	0ea 0ea		33 150	0 †s1s4A 0 †s1s4A
	Cuir de Russie (247 Chanel) soap toilet					3	0		vials 100 mgm 10 200 mgm 10	40 53	0ea 4ea		60 80	0 18184A 0 18184A
	bath	000				5 13	6		Energen (421 Energen) low sugar jams	00	200		-	0 101012
	taleum 69 Cumfy-Socks (1075 R)	902				1 1			strawberry $\frac{1}{2}$ lb	15	0		1	6
	Gussons (388 Cussons) Imperial leather hair crea	m							1 lb plum ½ lb	24 13	9		2	9
	64 inan (207 WC)	180	$\frac{14}{19}$	0	6 10 9 6	2	6		orange marmalade ½ lb	22 13	6	• •	2	6
	refill		10	6	5 3	1	9		Eno's (104 BP) fruit salt	20 24	3	6 0	2	3
	Cyphoids (1152 SK)		9	6	1 1 2 3	1	7½ 3			42	8	10 8	5	4
	Daranide (837 MSD) tablets 50 mgm 1	100	40	0ea		60	0		Eskornade (1153 SKF) Spansule 30	128	0	3 2 0	18	8 †87
Delete	Dascote (1262 UL)	16 28							Esslim (1158 Sodastream) squash				2	0
	Decadron (837 MSD) tablets enteric coated								Eura 66 (884 NB) camera Evan Williams (437 EW)	• •	••		38	6
	0.5 mgm 1	100 500 3	792 774	0		99 471	0		skin cream	$\frac{7}{12}$	6	3 9 6 4½	1 2	3 2
	Deep (102 CB) treatment sh	hampoo	0	0					Fashion Style (631 Hudnut) soft casual 202	33	6	16 9	5	6
	Delrosa (976 PS&T)	ube	48		12 0	6	9		200	53	6	26 9	8	9
	rose-hip syrup 6	OZ OZ	$\frac{22}{38}$	6 ··· 3 ···		2 4	6 3		very curly 203 201	33 53	6 6	16 9 26 9	5 8	9
	Delta-Butazolidin (501 Geig tablets	gy)	570	0		71	3†s4ATS		for children	29	6	14 9	4	9
	B - 4 (010 G-1 1)		740 10	0 8	2 8	217	6 †84ATS	Delete	Florentine case1402 Felicur (1107 SAGB)	69	0	34 6	11	6
	Dequadin (34 A & H)		10	O	2 0	-			(distributors 973 Pharmethica capsules1000	ls)				
	tulle 4 × 4 ln	10 36	44 89	0		5 11	6 1}		Fennings (1100 JS)	14		2 71		44
	Desert Flower (1131 Shulton dusting powder		77		37 6	13	6		baby dusting powder cooling powders children's	14	6	3 71	1	
	hand and body lotion		44 92	6 2	21 8 45 1	7	9	`_	5	45 gre	0	11 3 gross 3 71		6
	dispenser purse perfume		70	0 :	34 2	12	6		20 100	14 69	6	3 7 17 4	1	11 11
	spray cologne		128 37	0	32 5 18 0	22 6	6		little healers 36	12 29	6	3 1 7 3		8 10
	toilet water	250	70 210		34 2	12 26	6 3 †s4B		12	60	0	15 0		8
	Dianabol (262 CIBA)				••		·		Fibrenyle (461 FL) throat spray	gro 9	3	gross	1	2
	drops 20 n Dilavase (917 Organon)	nils	76	0	••	9	6		Fiery Jack (488 Fylde) warming wool	13	6	3 4	2	0
	tablets	50 250	96 3 3	0 4ea	• •	12 50	0		Flair (1355 Yardley) bath oll4866	75	0	37 6	12	6
	Dilosyn (179 BDH)		60		15 0	8	9 †s4B		dusting powder4809 Cologne4884	93 69	0	46 6 34 6	15 11	6
	tablets	25	60	0	15 0	8	9 †84B		4885	126	0	63 0	21	0
	Dimyril (502 Genatosan)		480		20 0	70	0 ts4B		perfume4890	45 75	0	37 6	12	6
	linctus 2	2 oz 1 oz	29 50	0	7 4 12 8	4	3		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	165 270		82 6 35 0	27 45	6
	Dinneford's (104 BP) magn		19	8	4 11	2	6		soap	21 87	0	5 3 43 6	14	9
	Discord (876 MP)		13	6	6 9	2	3		Flavelix (466 FF) linetus 4 oz 20 oz	28 100	0	7 0	4	1 107
	Distaval (378 DCBL) tablets forte 100 mgm 10	000	204	0ea		306	0 †s4B		Floidam (900 Norton)	30	0ea	::		tat
	Distavone (378 DCBL) vet. vlal 75	5 mils	46	6ea		69	6		lotion 3 oz $5\frac{1}{2} \text{ oz}$	39 66	0	19 6 33 0	6 11	6
	Distivit (378 DCBL)						†TSVP0		Floidam Tan (900 Norton)					
	20 ellxir 4	l oz	3 6	0ea 0ea		4 9	6		3 oz 5½ oz	57 105	0	28 6 52 6	17	6
	Do-Do (657 IL)	*		Uea	••	•			Flurymal (1107 SAGB) (distributors 973 Pharmethica					
	tablets	8 25	12 31	7	3 2 7 9	1 4	8 s7 2 s7		pessaries 6 50	84 52	0 0ea		10 78	6 TS 0 TS
	Donnazyme (1071 Robins)		110		27 6	14	7 s7	Delete	Formula 21 (539 Greenwood) Formula 21 (104 BP) 7-day	81	7			6
	tablets		122		30 6 55 0	14	61 ts184A		21-day	201	7	::	21	Ŏ
	Dorothy Gray (385 DG)	500 1	1020			121	3 †s1s4A		bath oil doz	13	0ea	6 6e	a 26	0
	propelling eyeliner		72 27	0	36 0 13 6	12	6		Franccide (208 BW) vet injection 400 mils	225	0		25	0 V80
	Dulcolax (154 B) suppositories 10 mgm	6	25	0		3	11		Freshman (876 MP) aftershave	21	0	10 6	3	6
		50	150	0	::	18	9 3		Gone Tan hairflx	33 15	0	16 6 7 6	5 2	6
	tablets 5 mgm	200 30	47 25	6ea 0	••	71	11		refill	7 45	6	3 9 22 6	1 7	3
	1	200	130 51	0 веа		16 77	3		shampoo	17 31	0	4 3	2 4	6
	Duromorph (718 LAB) ampoules 1·1 mil	6	81	0		9	0 DD		sponge-on deodorant	13	6	3 4	2	0
	Ekco (1377 Ekco)								taleum Froidex (787 Macfarlan)	21	0	10 6	3	6
	Ekcostat control Eiasto (887 New Era)		••	• •	••	32	6		anti-freeze ‡ gail 1 gall	147 282	0	• •	16 30	6
	nature salve		24 120	0	6 0 30 0	3 17	6		Fru-vita (690 Keldon) Furamide (143 Boots)	28	9	••	3	0
	tablets		44	0	11 0	6 25	5		tablets 15	69 76	0 7ea	17 0 19 1	10	0
			176	0	44 0									

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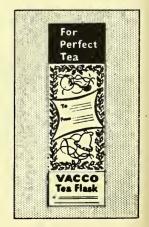
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Fynnon (104 BP) balm		1 In 01th (072 3CD)	10 -6 5 3 1 9
salt	25 10 6 5½ 3 5 23 4 5 10 3 0	Lip-8lik (876 MP) Litto (1282 VB)	
Gamgee (1073 Robinson) tissue	7 3½lb 1 3	Cremard ointment Patchold lotion	20 0 5 0 3 0 52 0 13 0 7 11
4 oz	6 8 lb 2 3	Sebacoid lotion	23 8 5 11 3 5 3 8 9 8 5 9
8 oz 16 oz	6 11b 8 2	special for dry hair	13 4 6 8 2 4
pink label NHS No. 3 2 oz 4 oz	5 10 lb 1 0 5 3\frac{1}{1}\text{lb} 1 9		38 8 19 4 6 10
8 oz	4 10 lb 3 3	standard for oily hair	13 4 6 8 2 4 22 0 11 0 4 0
te Genozo (502 Genatosan) tooth-p		make a salam sankanan	38 8 19 4 6 10
Germolene (104 BP)	35 5 8 10 1 4 6	Tintas colour restorer Lusty's (781 Lusty's)	22 0 11 0 4 0
Germoloids (104 BP) Germoplast (104 BP)	7 10 101	royal serum capsules trial full course	13 3ea 3 2ea 23 0 37 6ea 8 11ea 65 0
Gestanin (917 Organon)	15 8 1 9	seaweed bath Maclean (104 BP)	24 0 5 8 3 6
tablets 5 mgm 30	18 6ea 27 9 52 0ea 78 0	indigestion tablets	7 7 1 91 1 0
Glo (876 MP)	13 6 6 9 2 3		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Glow-Pot (1126 Servis)	38 9 · · · · 4 9 9 0 2 3 1 3	Magnoids (1152 SK) Margo's (798 Margolis)	12 0 3 0 1 9
Gon (1305 WB) tablets	27 0 3 0 s 60 0 7 6	baby powder	7 2 1 9½ 1 3 12 6 3 1½ 2 0
Gossamer (164 Brandt) eyelashe Goya (532 Goya)	s 60 0 7 6	8 oz hair lacquer spray bottle	
perfume cologne spray aerosol 30	57 6 28 0 9 6	2½ oz talcum honeysuckle	11 0 5 6 2 0 16 8 8 4 2 11
cedar wood cologne for men pre-electric shave lotion	45 3 22 1 7 6 33 3 16 3 5 6	Mark Vardy (303 County) after shave lotlon	51 0 25 6 8 0
80aD	11 6 2 10 1 6	cream foam shave	62 8 15 8 8 6
Heath & Heather (588 H&H) dandelion coffee ½ lb	38 0 <u>4</u> 3	deodorant Cologne pre-electric shave lotion	55 10 27 11 8 9 55 10 27 11 8 9
essence 247	68 0 7 6 34 0 3 9	talcum puffer pack Maw's (810 Maw)	48 0 24 0 7 6
slippery elm food $\frac{1}{1}$ lb	20 0 2 2	lanoline cream tube 438.00	8 7 4 3½ 1 6 24 9 12 4½ 4 6
2 lb	68 0 7 6	baby pants	•
unmalted 1 lb wholemeal malted 1 lb	38 0 4 3 3 4 3	nylon, lace covered, "Sunday" polythene feeder 4 oz 303.13	44 0 5 6 37 8 2 6
Helena Rubinstein (596 HR) llquid eye nner	9 6	Max (855 Mondart) snow spray 24×8 oz	92 6 22 63 5 11
red sable brush	5 6	Mentholatum (836 Mentholatum))
Hemotabs (634 GH) 12 H.F. (AS & CO)		deep heat rub	50 0 12 6 6 9
after-shave lotion	18 0 8 6 3 6 18 0 8 6 3 6	tablets 7½ mgm 30 250	4 1½ea †s4B 31 0ea
brilliantine dandruff shampoo	18 0 8 6 3 6 18 0 4 3 3 3	15 mgm 30 250	4 10½ea †84B
hair cream	18 0 8 6 3 6	Metercal (826 MJ)	71 0 8 6
pre-shave Hide-It (876 MP)	10 6 2 71 1 6	Miners (876 MP) hair lacquer	13 6 6 9 2 3
Hi-lift (1028 Rapidol) bleach Humatin (938 PD) capsules 16	21 0 10 6 3 6 40 0ea 60 0 TS	refill llpstick	7 6 3 9 1 3 9 0 4 6 1 6
Hydratene (276 C&C)	243 4ca 365 0 TS	lipstick/nall lacquer duo	18 0 9 0 3 0
tablets 25	30 0 3 9 †	mascara autobrush block	9 0 4 6 1 6
1bis 34 (884 NB) camera 250	160 0 20 0 † 72 6	nail lacquer frosted	9 0 4 6 1 6 15 0 7 6 2 6
		POTROTOP	7 0 0 0 4 5
lbis 44 (884 NB) camera	78 6	remover	7 6 3 9 1 3 9 0 4 6 1 6
Pulvules 125 mgm 24	21 Oea 31 6 TS	shadow combo stlck make-up	9 0 4 6 1 6 9 0 4 6 1 6
Ilosone (413 Lilly)	21 Oea 31 6 TS 86 4ea 129 6 TS 417 Oea 625 6 TS	shadow combo stlck make-up super llner talcum	9 0 4 6 1 6
Pulvules 125 mgm 24	21 0ea . 31 6 TS 86 4ea . 129 6 TS 417 0ea . 625 6 TS 20 4ea . 30 6 TS 167 2ea . 250 9 TS	shadow combo stlck make-up super llner	9 0 4 6 1 6 9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6
Name 125 mgm 125 mgm 125 mgm 125 mgm 1250 mgm 1250 mgm 1200 m	21 Oea 31 6 TS 86 4ea 129 6 TS 417 Oea 625 6 TS 20 4ea 30 6 TS	shadow combo stick make-up super liner talcum	9 0 4 6 1 6 9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6 33 0 16 6 5 6 47 6 23 9 7 11
Note	21 0ea . 31 6 TS 86 4ea . 129 6 TS 417 0ea . 625 6 TS 20 4ea . 30 6 TS 167 2ea . 250 9 TS	shadow combo stick make-up super liner talcum Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH)	9 0 4 6 1 6 9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6
Ilosone (413 Lilly)	21 0ea 31 6 TS 86 4ea 129 6 TS 417 0ea 625 6 TS 20 4ea 30 6 TS 167 2ea 250 9 TS 812 6ea 1218 9 TS	shadow combo stlck make-up super llner talcum Misslyn (1169 GS&S) nail varnish cream pearl remover.	9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6 33 0 16 6 5 6 47 6 23 9 7 11 18 0 9 0 2 11
Ilosone (413 Lilly)	21 0ea 31 6 TS 86 4ea 129 6 TS 417 0ea 625 6 TS 20 4ea 30 6 TS 167 2ea 250 9 TS 812 6ea 1218 9 TS	shadow combo stlck make-up super llner talcum Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH)	9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6 33 0 16 6 5 6 47 6 23 9 7 11 18 0 9 0 2 11
Ilosone (413 Lilly)	21 0ea 31 6 TS 86 4ea 129 6 TS 417 0ea 626 6 TS 20 4ea 30 6 TS 167 2ea 250 9 TS 812 6ea 1218 9 TS 44 2 22 1 7 0 20 0 10 0 3 4 18 0 4 6 3 0	shadow combo stlck make-up super liner talcum Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist	9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6 33 0 16 6 5 6 47 6 23 9 7 11 18 0 9 0 2 11
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Ilosone (413 Lilly)	21 0ea 31 6 TS 86 4ea 129 6 TS 417 0ea 625 6 TS 20 4ea 30 6 TS 167 2ea 250 9 TS 812 6ea 1218 9 TS 44 2 22 1 7 0 20 0 10 0 3 4 18 0 4 6 3 0 22 0ea 2 7ea 35 6 56 0 14 0 7 8 7 0 3 6 1 2 12 0 6 0 2 0	shadow combo stlck make-up super liner talcum Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (866 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilac, Sandalwood, French Fern, June Roses, Lily of the Vall Gardenia Mos-tox (814 M&B) size 1	9 0 4 6 1 6 9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6 33 0 16 6 5 6 47 6 23 9 7 11 18 0 9 0 2 11 10 8 2 8 1 5 24 7 6 14 3 3
Ilosone (413 Lilly)	21 0ea 31 6 TS 86 4ea 129 6 TS 417 0ea 625 6 TS 20 4ea 30 6 TS 167 2ea 250 9 TS 812 6ea 1218 9 TS 44 2 22 1 7 0 20 0 10 0 3 4 18 0 4 6 3 0 22 0ea 2 7ea 35 6 56 0 14 0 7 8 7 0 3 6 1 2 12 0 6 0 2 0 24 0 3 0 29 4 5 6	shadow combo stlck make-up super liner talcum Misslyn (1169 GS&S) nail varnish cream pearl remover Monastery (856 MH) (distributors 634 GH) herbs Morny (862 Morny) luxury mist Blue Carnation, Pink Lilac, Sandalwood, French Fern, June Roses, Lily of the Vall Gardenia Mos-tox (814 M&B) size 1 size 2 Mu-Cron (657 IL) tablets 12	9 0 4 6 1 6 9 0 4 6 1 6 15 0 7 6 2 6 33 0 16 6 5 6 47 6 23 9 7 11 18 0 9 0 2 11 10 8 2 8 1 5 24 7 6 12 3 3
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	4 oz 081 8 oz 082	16 6	ea 8 0 1 e ea 12 94e	a19 6 a33 6 a52 6		Penotrane (1305 WB) pessaries 15	84	0	10	6 ‡
	perfume handbag 017	7 9	ea 22 6ea ea 3 9ea	92 6 16 0		strong pessaries 15 100 Pentral (61 APC)	96 480	0	60	
	‡ oz 016 ‡ oz 015 1 oz 014	26 3	ea 12 9½e	a53 0 a53 0 85 0		Tempules 60 Persomnia (70 Aspro)		0	30	0
	handbag coffret 2 oz 013	75 0	ea 36 6ea	150 0 32 0	Delete	tablets	17 1 35	0 4 8 8	$ \begin{array}{ccc} 5\frac{1}{2} & 2 \\ 11 & 5 \end{array} $	
	"Secret de Venus" bath oll		ea 10 1ea ea 18 3ea	42 0 75 0	Delete	Pethldlne (394 Duncan) 250				
	2 oz 062 4 oz 063	67 66 127 66	ea 32 11ea ea 62 2 ea	135 0 255 0		tablets, 25 mgm 100 500 50 mgm 100	168	0	21	9plslDD 0plslDD
	bobine slngle 060 bobines 12 060 Norvex (325 CRC)		ea 2 01e ea 24 41ea	a 8 6 102 0		50 mgm 100 500 Pethldine (1074 Roche)		0	41	OplslDD OplslDD
	sanltary towels size 0	19 11		2 0 2 3		tablets 25 mgm 100 500	168	0 0	21	9p1s1DD 0p1s1DD
	2 3 4			2 6 3 1 3 9		50 mgm 100 500 Phensic (104 BP)	330	$\begin{array}{cccc} 0 & \dots & & & \\ 0 & \dots & & & \\ 0 & & & 3 & & \end{array}$	9 41 9 1	0p1s1DD 3p1s1DD
	soluble Nulon (1037 Reckitt)	34 6 18 5		2 0		Phosferine (104 BP)	31	2 7	91 4	0
	hand cream B Nycets (992 P&C) pastilles	$\begin{array}{cc} 16 & 0 \\ 20 & 0 \end{array}$		2 6 2 6		llquid tablets	33	$\begin{array}{ccc} 0 & 3 \\ 0 & 8 \\ 0 & 3 \end{array}$	9 1 3 4 9 1	
	old Spice (1131 Shulton) after shave lotion travel pack 371PM	43 0	21 0	7 6		Phyllosan (104 BP)	33 34 1	$\begin{array}{ccc} 0 & 8 \\ 0 & \dots \end{array}$	3 4	3 9
	body talcum travel pack 393PM	35 0	17 1	6 2		Pitco (983 Pifco)	55 116	9	12	6
	Owbridges (925 Owbridge) lung tonic	16 5	4 1½ 7 1¾	2 3		Infra-red lamp vibratory massager 1056 Pin Quick (631 Hudnut)	47	3ea 13 7ea 11	0ea 84 7ea 75	0
	Pabalate (1071 Robins)	28 7 41 0	$\begin{array}{ccc} 7 & 1\frac{3}{4} \\ 10 & 3 \end{array}$	3 10 5 5	Delets	Pitressin (938 PD) ampoules 0.5 Placentubex (451 F&J)	mll 10	$egin{pmatrix} 2 & 14 \ 0 & 97 \end{bmatrix}$	1 4 6 32	7
	tablets with hydrocortisone 500	2608 0	396 0	380 4 TS		Plastabook (1247 TDC) first ald dressings 2½ doz		0	2	6
	Padisha (Weil) (960 ADP) eau parfumee 2 oz 080 4 oz 081	9 66 16 66		a19 6 a33 6		Platine (350 Dana) perfume		0 22 3ea 3	3 7 1ea 12	6
	8 oz 082 16 oz 083	26 36 46 36	ea 12 9½ea ea 22 6ea	a 52 6 92 6		Ponds (256 CPL) 120V	10	6ea 5	2ea 21	0
	perfume handbag 017 2 oz 016 3 oz 015	14 9e 26 3e	ea 7 2ea ea 12 9le:	30 0	Delete Delete	cold cream tube tube tube tube	10 15 1	8 6 6 5 0 7	4 2 3 1 1 2	0 8 6
	1 oz 014 2 oz 013 handbag coffret SE	42 0e 75 0e 15 9e	еа 36 беа	150 0	Dolete	flowing cold cream vanishing cream tube	23 8 12 8 10 6	8 6	10 3 4 2 3 1	9 0 8
	"Secret de Venus" bath oil 2 oz 060B	20 9e	ea 10 1ea	42 0	Dolete	Pretty Quick (1240 Tokalon)	15 10		1 2	6
	1 oz 061 2 oz 062 4 oz 063	37 6e 67 6e 127 6e	ea 32 11ea	135 0		(distributors 327 WC) eye shadow mascara and pencil sets	6 6		3 1 6 2	0
	boblne single 060 bobines 12 060	4 3e 50 0e	ea 2 0 1 ea			Pride (487 Furman) hair lacquer spray	21 6		9 3	9
	Pal (438 ER) razor set Palmolive (280 CP)	47 8	11 11	6 10		Primoids (1152 SK) Pro (721 LC) toothbrushes	9 (_	3 1	3
	shaving stick refill Panets (1305 WB) tablets 16	$\begin{array}{cc} 10 & 1 \\ 18 & 9 \end{array}$	2 6	1 4 2 1		adult child Quantril (1248 Trevena)	12 (5 II	2	6
	Papaverine (708 Knoll) tablets 20 250	2 6e 22 9e		3 4 30 4	Delete	capsules 25 Radian-A (1023 Radlol) 11 oz	62 ()	7	9
	Parabal (1320 WP) tablets 100 500	90 0 330 0	22 6 82 6	13 2 †s1s4A 48 2 †s1s4A	Delete	3 oz 2 oz	37 0	9	3 4	11
	Pargonyl (1087 Roussel) capsules 250 mgm 16	40 0e		60 0 TS		Radiol (1023 Radiol) liniment horses and dogs ½ gall	35 0	lea 8	9ea 55	6
	Parnate (1153 SKF) tablets 50 500	14 4e 142 0e		25 1 †84B †84B		leg wash powders 6		lea 16	3ea 103 6 3	0 6 p1
	Parstelin (1153 SKF) tablets 50 500	20 0e 190 0e		35 0 †s4B †s4B		Rastinon (621 Horlicks) tablets 100 500		lea lea	• •	†s4B †s4B
1	PAS (572 HC) sodium tablets enteric coating 0.5 gm 500	14 10ea	a	19 9		Redelo (1215 Teasdale) lozenges linseed, licorice & chlorodyne 4 lb	1 8		5 § 9 lb 5	3
	sugar/enteric coating 0.5 gm 500	27 9e:	a	20 0		Roberts Windsor (1070 Windsor) Hi-White family pack 5050	154 0	lb 	9½lb 5	3
	enteric coating 0.75 gm 500 1000	28 0ea 19 9ea 37 6ea	a	37 4 26 4 50 0	Delete	Robinson's (285 Colman) Sicilian lemon juice 12½ oz	gross			
į	Pasinah 6 PH (1303 Wander) PAS sodium	07 000				high protein cereal 25 oz	19 3		. 2	0
	1·67 gm+33·3 mgm INAH 180 540	34 10ea 96 0ea		52 3 TS 44 0 TS		Robitussin (1071 Robins) 80 oz 1 Rolleiflex (637 Hunter) camera	.080 0	270	0 157	6 †s4B
	Paxette (884 NB) camera electromatic		4	95 0		with f/2.8F Zeiss Planar lens with f/2.8F Xenotar lens	580 2	ea 413 ea 385	7ea 2957 2ea 2755	1 6
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		4	57 0 57 6 59 6		ever ready case camera with 3.5F Planar lens with 3.5F Xenotar lens	463 2	ea 19 ea 356 ea 327	8ea 140 8ea 2551 7ea 2343	8 6 9
	$rac{2\mathrm{L/C}}{2\mathrm{L/X}}$		5	99 6 39 6		ever ready case T camera with Tessar f/3.5	77 4	ea 18 1	.0ea 134	10
	$egin{array}{c} 2\mathrm{L/T} \\ 2\mathrm{BL/C} \\ 2\mathrm{BL/X} \end{array}$		7	99 6 59 6 99 6		without meter ever ready case	959 4	ea 233 1	2ea 1961 0ea 1673 5ea 131	
	2BL/T III reflex IB		9 13	99 6	Delete Delete	camera with 2.8E2 Planar lens camera with 2.8E2 Xenotar lens Rolleiflex-Tele (637 Hunter)				1
	automatic			75 0		meter	165 66	ea 40	4ea288	8

	camera case	95 Oea	23	2ea 165	8		VR1 VR2		15 10ea 108 10 21 5ea 144 5
1066	ete Sandosten (1098 Sandoz) ali pro 8choil's (Dr.) (1108 SMC)				_		VR3	90 lea :	22 Oca 148 8
	bath cubes pine (6)	12 0 15 0	7		8		$\frac{\mathrm{HS}/3}{\mathrm{HD}/3} \ldots \cdots$		20 4ea 137 4 25 8ea 173 2
	heei grip (pair) Selvigon (1153 SKF)	6 8		4 , 1	01		8untax (324 Crookes) vet 100 mils	264 0	33 0
	syrup 3 oz	$\begin{array}{ccc} 60 & 0 \\ 72 & 0 \end{array}$			9 6		Sure Shield (549 Guest) lozenges iodised threat	8 4	2 1 1 3
	8heer Bliss (876 MP)	12 0		2	ŏ			15 0	3 9 2 3
	8hurzine (1133 Shurzine) ointment	14 0	3	3 2	0		pastilles glycerin & thymoi Swandown (1218 HT)	11 6	
	Si Bon (150 Bourjois) bath crystais 9223	83 0	41	3 14	8		trio pack Sylvia (339 CG)	12 4	6 2 2 1
	cubes (6)	34 8 77 0	17	1 8	6		sanitary toweis, size 0 size 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2 1 21
	soap toilet (3)	46 6	11	71 6	9			21 6	2 4
	talcum	37 2	18 7		6		size 2 size 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3 5
	suppositories 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0.0	7 8		Tabloid (208 BW) cyclobarbitone gr 3 100	54 0	6 9 †s1s4A
	tablets	1224 0		400	0		500 1000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28 3 †s1s4A 54 0 †s1s4A
	hair cream	12 9	6		0		5000	2120 0	265 0 †s1s4A
	hair dressing	19 2 18 1	9 () 1 2 1	Ö		pethidine HCI 25 mgm 100 500	168 0	21 0 ts1DD
	hair tonic	$\begin{array}{ccc} 28 & 8 \\ 18 & 1 \end{array}$) ₂ 2 1			50 mgm 100 500	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9 0 †s1DD 41 3 †s1DD
	pure	$\frac{28}{79} \frac{8}{10}$	14 39 1		6 6	Dolete	thyroid gr 1 500 Tabu (350 Dana)		
	Simocitron (317 CS)	$\begin{array}{cccc} 27 & 0 \\ 42 & 0 \end{array}$	13	6 4	6		perfune trial 104A	45 0 5 6 3ea	22 3 7 6 3 1ea 12 6
	Simpkin's (1141 Simpkin)	42 0	21	•	-		104V	10 6ea	5 2ea 21 0
	glucose pastilies biackcurrant and glycerin						toilet soap (3) 500 Tace (838 MN) tablets 30	6 0ea 164 0	1 6ea 10 6 20 8 †s4B
	glycerine, lemon and honey	12 0			8		Talika (1169 GS&S)	504 0	63 0 †s4B
	2 oz medicated pastilles	12 0		. 1	8		eyelash grower		24 0 7 11 18 0 15 11
	antiseptic blackcurrant	$\begin{array}{ccc} 12 & 0 \\ 12 & 0 \end{array}$			9		Tan (388 Cussons) 5481 Tanderil (501 Geigy)	49 9	24 3 8 6
	Bronco-Pines	13 6	3	2	0		tablets 100 mgm 50	14 0ea	3 6ea 24 6 †sls4A
	Dilly Duckling	12 0 12 0	3 (1	9		250 1000	65 Sea 1 256 9ea 6	16 5ea114 11 †s1s4A 34 2½ea449 4 †s1s4A
	glycerine of thymol T.C.L.	$\begin{array}{ccc} 12 & 0 \\ 12 & 0 \end{array}$	3 (1	9		Taractan (1074 Roche) ampoules 30 mgm 6		18 6 10 9½
	Skenna (1152 SK) pastilles 8 mith Kendon (1152 SK)	9 0	2	3 1	3		tablets 15 mgm 50	43 4ea 1 90 0 2	10 10ca 75 10 22 6 13 1 ½
	iozenges bismuth co., BPC	16 6	4	l 2	3		250 Tetrazets (837 MSD) 12	30 0ea 36 0	7 6ea 52 6 * 4 6 †s7
	Brompton	12 0	3 () 1	9 9		Thermos (1226 Thermos)		·
	bronchial cinnamon	$\begin{array}{ccc} 12 & 0 \\ 12 & 0 \end{array}$	3 (1	9		608		96 1
	formalin formalin menthol and	12 0			9		620 81		47 6 103 2
	cinnamon	$\begin{array}{cccc} 12 & 0 \\ 10 & 6 \end{array}$	3 (9		jugs 82		136 6
	iodised throat linseed, liquorice and	12 0	3 (9		34 54	••	41 0
	chlorodyne	12 0	3 (9		54Q		46 2
	sulphur smoothie (876 MP)	$\begin{array}{cc} 12 & 0 \\ 15 & 0 \end{array}$			9 8		45 45Q	:	49 8 57 4
	hand iotion	57 0	28	3 9	8		29 29Q		85 2 102 11
	8ofties (1389 Veivet) 3-piy hankies 16	47 0			6		Thoracin (769 LH) ointment	•• ••	102 8
	Spa (1167 Spa) sets ladies	gross					Thram (506 Gerhardt) trial	30 0 76 0	7 6 4 2 9 8
	Rosaiind	65 6	16	9	6		Tofranil (501 Geigy)		
М	Sparklets (183 BOC) syphons De Luxe	867 0	105 8		0		tablets 10 mgm 60	110 0 430 0	13 9 †s4B 53 9 †s4B
	Globemaster Hostmaster	$\begin{array}{cc} 927 & 0 \\ 618 & 0 \end{array}$	113 (75		6 0		25 mgm 50	1580 0 185 0	197 6 †84B 23 14†84B
	Sparkling 8pa (450 Farthing) formula 3	21 0	5 3	3	6		200 1000	710 0 3300 0	88 9 †s4B 412 6 †s4B
	Spontex (1174 Sponcel) car sponge ex/large C/2	40 7		1 5 1			Tress (525 Golden)	10 0 15 0	5 0 1 8 7 6 2 6
	Sporostacin (922 Ortho)			Ī.,			Trill (525 Goiden) tube Trie (285 Coiman)		
	cream with applicator	160 0		23	4		fruit squash	31 0	
	Sporti IV (645 Ilford) camera case	$\begin{array}{ccc} 342 & 0 \\ 120 & 0 \end{array}$	30 (17	8 5		syrup 4 oz 20 oz	256 0 6	5 0 8 9 †s7 4 0 37 4 †s7 6 0 9 4 †s7
	gift pack Spree (955 Pepsodent)	46 8ea	11 (ea 81	0		tablets 50 250		6 0 9 4 †87 8 0 39 8 †87
Į.	fruit squash sachet	29 3 gross			3		Trivexin (208 BW) vet 100 mils	450 0	50 0
	Steiner (1188 Steiner) hand milk tube	21 0	10	3 3		Delete	Tycoon (705 Kirby)	100 0 11	50
	Stelabid (1153 SKF)		10		•		after shave lotion	32 0 1	6 0 6 0
	tablets 30 250	144 0 95 0ea	23	ea 188	0 †84B 3 †84B		deodorant hair dressing	32 0 1	6 0 8 0 6 0 8 0
	Steradent (1037 Reckitt) Sterispon (34 A&H) geiatin spor		6 10	3	9		medicated shampoo pre-ejectric shave jotion	32 0 1	6 0 6 0 6 0 8 0
	No. 2 $20 \times 10 \times 0.1$ cm 1 No. 4 $10 \times 10 \times 0.5$ cm 6	100 0 46 4ea	:		8		taicum powder presentation packs of		6 0 8 0
	Stratton (735 Laughton) Empress Lipview 277/EMB				0		urelim (1305 WB)	6 8 0 3	4 0 12 6
	Streptotriad (971 P&MB)	56 0					tablets 0.5 gm 100		6 6ea 45 8
	granules for 11 oz tablets 25	56 0 66 0		. 8	0 pls4B 3 pls4B		Uvistat (1305 WB) 500		9 2ea204 2
	100 500	230 0 1020 0			9 pls4B 8 pls4B		valderma (343 DH)	60 0 1	5 0 8 9
	Styptol (708 Knoll) tablets 20	36 0			9 81		talcum powder Vanquin (958 PD)	16 5	8 21 2 6
	Sunset (1205 S & C)	25 dea			41 01		suspension 1 oz	56 0 1 720 0 18	4 0 8 2 0 0 105 0
	electric blankets	44 900	10)oe 76	•		Vaseline (256 CPL)		
	Little Gem	44 2ea 58 8ea	14	iea 98	9 8		v-Cii-K Suipha (413 Liily)	28 10	7 21 3 11
	type SS	53 5ea 70 8ea	17	Bea 118	8		vecortenol (262 CIBA)	5 10ea	8 9†s4BTS
	D3	73 2ea	17 10	Dea 120	•		(vet) 100 mgm 4 mils	11 4ea	17 OTSVPO

	250 mgm Veno's (104 BP)	10	mils	25	10ea		• *•	38	9 T	SVPO
	cough mixture			31	2	7	41	4	0	
	Viacutan (1305 WB) t	ulla	10	42	ő	10	6	6	11	
	**************************************	,unc	30	72	ő	18	0	10	6	
Delete			50		U	10	U		•	
	Villescon (154 B) liqui	id	4 oz	58	0	14	6	8	5 }	
	Virugon (97 Bayer)			••	·		•	_	-2	
	tablets		48	12	0ea	3	0ea	21	0 †	
			500	117	6ea	29	5ea	205	8 +	
	Visa (Piguet (1201 Su									
	bath oil		g oz	13	0ea	6	6ea	26	9	
	Voltage (385 DG)									
	bath essence			111	0	55	6	18	6	
	concentrate	• •		126	0	63	0	21	0	
	dusting powder			150	0	75	0	25	0	
	perfume	• •		315	0	157	6	52	6	
	Warfarin (1305 WB)		50	040						
	sodium tablets 20 m	_	50	360	0		• •	45	0	
	Wet and Set (220 CAI	JG)								
	hair curling tissues			17	6	8	9	2	11	
	Whisper (1326 Whispe	r)								
	setting mist sachet			6	0	3	0	1	3	
	aerosol			33	0	16	6	5	6	
	Yardley (1355 Yardley				_				_	
	hand cream airflow]	1450	47	0	23	6	7	10	
	Yaxa (261 Christy)									
	perfumed deodorant	stic	ck	19	6	9	9	3	3	
	perfumed roll-on	• •		27	0	13	6	4	6	
	refill	• •		21	0	10	6	3	6	
	Yeast-Vite (104 BP)	• •		15	0	3 8	9	1 4	11	
	Zap (1070 Windsor)			33	0	8	3	4	3	
	pumice soap	6	3000	56	10					
	punnec soap		3000	gro			• •			
	Zenoids (1152 SK)			12	0	3	0	1	9	
	Zibeline (Weil) (960 A	DP)				•	-	•	•	
		OZ		9	веа	4	7lea	19	6	
		oz	081	16	6ea	8	0 lea		6	
		OZ	082	26	3ea	12	9 lea		6	
		0Z	083	46	3ea	22	6ea	92	6	
	perfume handbag		017	7	9ea	3	9ea	16	0	
		OZ	016	14	9ea	7	2ea		0	
		OZ	015	26	3ea	12	9½ea		0	
		0Z	014	42	0ea	20	6ea		0	
		oz	013	75	0ea	36	6ea1		0	
	handbag coffret	oz	SE	15	9ea	7	8ea	32	0	
	diffusette }		016D 015D	17 29	6ea 0ea	8 14	6ea 2ea	50	0	
			015R	26	0ea	12	Sea	50	6	
			012	135	0ea		10ea 2		0	
	de luxe bottle in cof			90	0ea		10ea 1		ŏ	
	"Secret de Venus" b			-	500	10	2000		•	
			060B	20	9ea	10	1ea	42	0	
			061	37	веа	18	3ea	75	ŏ	
		oz	062	67	веа		11ea1		0	
		OZ	063	127	6ea	62	2ea2		0	
		gle		4	3ea	2	0}ea		6	
	bobines 1	2	060	50	0ea	24	4∮ea	102	0	
	Zief (887 New Era)									
	tablets	• •		68	8	17	2	10	0	
				171	4	42	10	25	0	

AMENDMENTS TO KEY TO SUPPLIERS:

AMENDMENTS TO KEY TO SUPPLIERS:

(164 Brandt)=R. BRANDT & CO. (MANUFACTURING), LTD., 25 Sheldon Road, London, N.W.2. Gladstone 9757.

(183 BOC)=BRITISH OXYGEN CO., LTD., Sparklets Works, Queen Street, London, N.17. Tottenham 0881.

220 CALG)=C.A.L.G. ENTERPRISES, LTD., 34 Upper Brook Street, London, W.1. Hyde Park 0148.

(257 Chilton)=CHILTON ELECTRIC PRODUCTS, LTD., Hungerford. Berks. Hungerford 237.

(315 Crater)=CRATER PRODUCTS, LTD., Lower Guildford Road, Knaphill, Woking, Surrey. Brookwood 2571.

(325 CRC)=C. R. CROSSKILL & SONS, LTD., Calvert Works, Norwich. Norwich 27101.

(385 DG)=DOROTHY GRAY, LTD., 565 Kingston Road, London, S.W.2°. Liberty 3471

(461 FL)=FIBRENYLE, LTD., 157 Dukes Road, London, W.3. Acorn 5073.

1073.

(467 Fleet) = FLEET LABORATORIES, LTD., 675 Mount Pleasant Road, Toronto 7, Ontario, Canada.

Delete (605 Hill's) = HILL'S BALSAM, LTD., (605 Hill's) = HILL'S PHARMACEUTICALS, LTD., Spring Bank Works, Nelson, Lancs. Nelson 65321.

(658 Insulex) = INSULEX, LTD., 67 Westbourne Grove, London, W.2 Park 3424.

Park 3424.

(826 MJ) = MEAD JOHNSON, LTD., 10 Upper Grosvenor Street, London, W.1. Grosvenor 6944.

(861 MPC) = MORGANS POMADE CO., LTD., 122 Maidstone Road, Sideup, Kent. Foots Cray 7878.

(996 PR&D) = PLASTIC RESEARCH AND DEVELOPMENT, LTD., 8 Park Road, London, N.W.1. Paddington 2172.

(1115 SI) = SCHICK INCORPORATED (UK), LTD., 86a Brook Street, London, W.1. Grosvenor 5559.

(1158 Sodastream) = SODASTREAM, LTD., 22 Oval Road, London, N.W.1. Gulliver 4421.

(1247 TDC) = TRICO DEVELOPMENTS CO., LTD., Great West Road, Brentford, Middlesex. Isleworth 3464.

(1248 Trevena) = TREVENA, LTD., 20 Grosvenor Place, London, S.W.1. Sloane 0676.

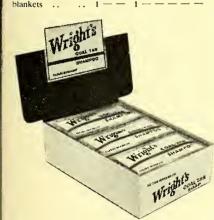
(1274 VDL)=V-DEVELOPMENT, LTD., 22 Clifton Road, London, W.9. Cunningham 0701.
(1326 Whisper)=WHISPER COSMETICS, 175 Bow Road, London, E.3. Advance 5546.

THIS WEEK'S CHANGES

NEW and altered entries notified for the first time

	NEW and altered	entries i	R=1	ed fo Redu	r th	ne fi	rst t	ime	e.
	Entries new th						— •		
•	Abicol (147 Boots) tablets	100	14	0ea			21	٥	te1R
A	Aidex (330 CC)	500 C153	$\frac{64}{17}$	0ea	4		96 2	0	†s4B †s4B
A	Anadin (655 ICC) tablets	20	14	6	3 7	8	1	11	
9		50 100	$\frac{28}{49}$	5 3	$\frac{7}{12}$	1	3 6	9	
•	new balsam	1 oz	17	6	4		2	4	
R	Erythrocin (2 Abbott) Filmtabs 100 mgm	2 oz	27	6	6	-	3	8	ma
	rimitabs 100 mgm	$\begin{array}{c} & 25 \\ 100 \\ 500 \end{array}$	$\frac{10}{38}$ 185	3ea 10ea 2ea		::	15 58 277	3	TS TS TS
	250 mgm	25	21 83	3ea 7ea			31 125	10	TS TS
	I.M	500 1 mil	406 5	3ea			609	4	TS TS
		2 mils 10 mils	$\frac{6}{31}$	8ea			10 46	0	TS TS
	lactobionate 300 m suspension	60 mils	$\frac{10}{6}$	6ea 0ea			15 9		TS TS
Delete	Fresh Magic (876 MP Gala (876 MP)) gel and s	stick						
Delete	hormone day/night	tube	15	0	7	6	2	6	
Delete Delete Delete	maseara		33	0	16	6	10 5 3	6	
Delete Delete	ereamy		21 27	0	$\frac{10}{13}$	6	4	6	
Delete	perfume	••	$\frac{27}{111}$	0 0	13 55 16	6	18 5	6	
Petet	velvet film super base velvet finish puff beauty soap (3)			0 6	12		4	0	
Ā	heauty soap (3) Gillette (514 Gillette)	::	44	3	11	03	6	ŏ	
:	blade merehandiser	A.56 No. 80	73 52	0 <u>1</u> ea 6	$\frac{18}{13}$	$\frac{3\frac{1}{2}\epsilon}{1\frac{1}{2}}$	a 125 7	6	
20000	adjustable executive	No. 195	122	6 11½ea	30	7½ 9ea	17	6	
	shaving brush badg shaving outfits trav	eller	16	0ea 34ea	2	4ea	15	11	
Delete Delete	presentation set	No. 78	18	4ea	4	7ea	31	6	
Delete		No. 5 No. 60 No. 72							
A	travel set bcol (671 Jeyes)	8 oz 16 oz	$\frac{15}{22}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1 2	8	
•	fnapasade (1154 S&N) granules	60 pkts	47	6ea			71		rs
		120 pkts 1000 gm	87 80	6ea 0ea			131 120	3 '	TS TS
•	Jackson's (662 EJ) lozenges L.L.C.	2 oz	8	6			1	0	t
R	pastilles bronchial catarrh	2 oz	12	0	2	10	1	9	
	Jeypine (671 Jeyes)	16 oz 4 oz	$\frac{12}{50}$	$\begin{array}{ccc} 0 & \cdots \\ 0 & \cdots \\ 0 & \cdots \end{array}$			1 6 1	6 0 0	
21	Juvel (1285 Vitamins)	16 oz	22	6			2	6	
•	elixir Kerofil (695 TK)	6 oz	56	0		• •	7	0	
$\frac{A}{Delete}$	lozenges tooth-paste	• •	14	0	3	6	2	0	
Delete	Brownie model 1								
Delete Delete	Retina 11C	d B							
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	soap guest toilet small large	::	$\frac{13}{22} \\ 32$	0 0 6	3 5 8	3 6 11	2 3 4	0 3 9	
A	bath Medivet (615 H&M)		55 55	0	13	$\frac{1\frac{1}{2}}{9}$	8	0	
A	tablets Natusol (695 TK)		156	0			19	6 1	s1s4E
	baby eream Outdoor Girl (876 MP)		15	4	3	10	2	3	
Delete	cream rouge "Hand Magic"		15	0	7	6	2	6	
Delete Delete	shimper stirl		$\frac{12}{21}$	0	$\frac{6}{10}$	6	3	6	
Delete	shimmer stiek		6 15 21	0	$\frac{3}{7}$	0 6 6	1 2 3	6	
	Pholtex (1061 Riker) cough suppressant	2 oz	$\frac{21}{64}$	0	10	6	8	6 n +	
•	Respiran (690 Keldon)	20 oz	49	4ea			74	0 †	7
	inhaler refill		14 11 1	0ea 10ea			21 17	0 9	
•	Rheusalate (1341 WFL paste	40 gm	32	0	8	0	4	6	
•	Rinurel (1310 WW) tablets	30	72		18	0	10	6	
	Secret Magic (876 MP)	250		0ea	8	9ea	61	3	
A	Souchets (695 TK)	l nell d		0	7	6	2	6	
	liquorice and mentho	i pellets	8	4	2	1	1	3	

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Aspro Beecham's pil	lls	3	2	2	2	5	2	4	1	1
power Bisodol .	ders	4	5	4	5	4	5	4	4	5 4
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Norvie electrie

DISPLAY OUTER AND SACHET PACKS: Wright Layman & Umney, Ltd., 42 Southwark Street, London, S.E.1, have produced for the new Wright's coal-tar shampoo the display outer shown. The sachets are the subject of heavy advertising in the national Press, the theme of which is dandruff control.

A A Delete medicated rub pastilles lozenges 5 Delete Vodex (695TK) lozenges R Wyamin (1352 Wyeth) capsules 38 0 ... Xylotox (970 PM) 15 gm ointment

 Young Set (876 MP)
 medicated cream 24 0 6 0 3 6 _ _ 6 Rinstead pastilles .. 1 1 - 1 1 1 - 1 1Panets 1 1 ----Penetrol inhalant .. Seotties 3 3 2 4 3 4 3 5 1 - 2 2 2 2 2 --Stergene Pepsodent Sure Shield lozenges -Philips electric blankets .. 6 6 6 6 6 6 6 5 6 Philishave .. Phosferine ... Phyllosan Winspray products . -Pifeo massager

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

A COMPUTER PROGRAMME for classifying plants, Science, October 21.

Pluronics as a suppository base, Amer. J. Pharm., August.

A METHOD for concentrating solutes of high

molecular weight, Nature, November 5.

BIOGENESIS of lysergic acid in ergot, Nature,
November 5.

ACTIONS of the decarboxylasc inhibitor, ∝-methyl-3,4-dihydroxyphenylalanine, in the dog,

Nature, November 5. A POSSIBLE MECHANISM of cell-wall formation, Nature, November 5.

INSTABILITY of apomorphine hydrochloride solutions, Aust. J. Pharm., August 30.

CHEMICALLY MODIFIED adrenoeortical steroids,

CHEMICALLY MODIFIED adrenocortical steroids, J. Amer. Pharm. Ass., October 15.

OXYGEN: antidote for systemic reactions to local anæsthesia, J. Amer. Pharm. Ass., October 15.

DANGER from intrathecal methylene blue, J. Amer. Pharm. Ass., October 15.

THIAZIDE DIJRETICS in toxemia of pregnancy.

J. Amer. Pharm. Ass., October 15.
INSULIN and glucagon, Practitioner, November.
CORTICOSTEROID THERAPY, The present status of, Practitioner, November.

HUMAN GROWTH HORMONE, Practitioner, November

POTASSIUM in the treatment of eholera, Lancet, November 5.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Tuesday of the week of insertion.

Monday, November 14

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Bull and Butcher, Whetstone, London, N.21, at 8 p.m. Dr. J. van den Bosch (research fellow, Galton Laboratory, University College, London), on "Recent Advances and New Possibilities in Human Genetics."

Horicellural Society, Greycoat Street, London, S.W.1. Until November 18.

NORTH LONDON PHARMACEUTICAL ASSOCIATION,

Beale's restaurant, Holloway Road, London, N.7, at 7.45 p.m. Mr. A. R. G. Chamings (a member of the Council of the Pharmaceuti-eal Society) on "Trends in Modern Medicine.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Unicorn hotel, Gidea Park, at 7.45 p.m. Dr. J. M. E. Jones on "Mental Illness."

its Treatment."

ASSOCIATION PHARMACISTS' Branch, Greyhound hotel, at 6.30 p.m. Annual dinner and dance.

mual dinner and dance.

PHARMACEUTICAL SOCIETY, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Dr. R. E. Stuckey (chief analyst, The British Drug Houses, Ltd.) on "Standards for Pharmaceutical Preparations." Discussion is to be opened by Messrs, F. G. Stock (City of Birmingham analytical laboratory) on "Drug Control in the City of Birmingham"; J. Graham Sherratt (public analyst's laboratory, Warrington) on "Some Problems in the Analysis of Dispensed Medicines"; and E. I. Johnson, M.Se., F.R.I.C. (laboratory of the Government chemist) on "The Referee Aspect of the Drug Testing Scheme."

Tuesday, November 15

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Imperial hotel, at 8 p.m. Messrs, H. P. Recce and A. Carter (Fencolor Laboratorics) on "Colour Processing Services."

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Hertford secondary school, Mangrove, at 8 p.m. Mr. S. A. Milbank on "A Camera in Canada."

LONDON SECTION, ROYAL INSTITUTE OF CHEMIS-

LONDON SECTION, ROYAL INSTITUTE OF CHEMISTRY, Shell Mex House, Strand, London, W.C.2, at 6,30 p.m. Annual meeting.
WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Hackwood hotel, Widmore Road, Bromley, at 8 p.m. Dr. M. K. Thompson on "Hypnosis: Its Place in General Practice."

Wednesday, November 16

BOURNEMOUTH, PORTSMOUTH and SOUTHAMPTON Branches, Pharmaceutical Society, Polygon hotel, Southampton, at 7.15 p.m. Mid-southern arca regional eonference on "A New Deal for the Branches."

BRADFORD INSTITUTE OF TECHNOLOGY, PHARMACY Bradford Institute of Technology, Pharmacy Department, college hall, Institute of Technology, Great Horton Road, at 4.30 p.m. Speech day and presentation of prizes.

Burnley Branch, Pharmaceutical Society. Cross Keys hotel, St. James Street, at 7.45 p.m. Dr. R. J. Calvert on "Diabetes and

Thursday, November 17

Bradford Branch, Pharmaceutical Society, Midland hotel, at 7.30 p.m. Dr. T. D. Whittet (chief pharmaeist, University College Hospital, London) on "Hospital Pharmacy."

COVENTRY BRANCH, PHARMALEUTICAL SOCIETY,

hotel Leofrie. Annual dinner and dance.

LIVERPOOL BRANCH, GUILD OF PUBLIC MACISTS, pharmacology department, Liverpool University, at 6.30 p.m. Professor A. Wilson on "Pharmaceutical Customs and Traditions."

Manchester Pharmaceutical Association, engineers' club, Albert Square, at 7.45 p.m.
Dame Enid Russel Sm.th (deputy secretary,
Ministry of Health) on "Problems of 1960
in the Pharmaceutical Service."

Friday, November 18

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDISTRY, 14 Belgrave Square, London, S.W.1. at 6.30 p.m. Professor J. F. Danielli (King's College, London University) on "Physicochemical Aspects of Chemotherapy."

S.OTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Professor G. L. Montgomery (professor of pathology, Edinburgh University) on "Changing Conceptions of Disease."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, town hall, Lambeth, London, S.W.2, at 8.15 p.m. Talk by Mr. A, L, Dykes (drugs branch, Home Office). FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL

Home Office).

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, NOVEMBER 9: The outstanding feature of the CRUDE DRUGS market, in an otherwise dull week, was the big advance at origin of certain United States botanicals.

WITCH HAZEL LEAVES were quoted at 4s. per lb., c.i.f., business having been reported done on the spot at 3s. $2\frac{1}{2}d$. Thin natural CHERRY BARK which recently was available at 1s. 11d. per lb. on the spot has been cleared, and the on the spot has been cleared, and the replacement value was said to be 3s. 6d., c.i.f. Cascara remained at its previously advanced level of 265s. per cwt., c.i.f. Offers of prime Cape Aloes were received at 167s. 6d. per cwt., c.i.f., after an absence of several weeks. Formosan Menthol was sixpence per lb. dearer in both positions, although material from other sources was unchanged. Canary Isles Cochineal was considerably weaker.

In ESSENTIAL OILS, LEMONGRASS was dearer for shipment by sixpence per lb., and PATCHOULI by 2s. 6d. PENNYROYAL was also much firmer, the duty paid price being now 15s. against 12s. 6d. recently and Brazilian Pepper-MINT rose threepence per lb. Lower per lb. were LAVENDER SPIKE by about 1s. 9d., Bois de Rose by threepence

and ANISE by one penny.

Following the removal of duty on certain anhydrous Borax as reported last week, one of the large suppliers have notified that they are cutting their scheduled price for that particular grade by £10 10s. per ton. There are no changes in the other grades of borax (decahydrate and pentahydrate) nor in the price of Boric ACID. The company mention that they are faced with substantial ocean freight increases after January 1, 1961, and that some price readjustment before next spring may have to be made.

Pharmaceutical Chemicals

ACETANILIDE. — Crystals. One-cwt. lots. 2s. 10d. per lb.; 5-cwt., 2s. 9d.

ADRENALINE. — (Per gm.). Synthetic B.P. 1-kilo lots, 11d.; 500 gm., 1s. 1d. acid tartrate, b.P. 1 kilo, 7½d.; 500 gm. 9d.

ASPIRIN. — 5-cwt. lots (in kegs), 4s. 9d. per lb.; 1-cwt., 4s. 11d. Calcium salt, 12s. 6d. per lb.

BARIUM SULPHATE. - B.P., 250-kilo lots, 3s. $3\frac{1}{2}$ d. per kilo.

Benzoic acid.—One cwt., 2s. $11\frac{1}{2}$ d. per lb.; and Sodium salt, 2s. $9\frac{1}{2}$ d. per lb.

Brucine. — Alkaloid and Sulphate 100-oz. lots, 10s. 6d. per oz.

BISMUTH SALTS. — Prices (per lb.) in packages over 2-lb.:—

	28 lb. to 1 cwt.	1 cwt.	5 cwt.
CARBONATE SALICYLATE SUBGALLATE SUBNITRATE	s. d.	s. d.	s. d.
	20 6	20 0	19 6
	20 3	19 9	19 3
	19 9	19 3	18 9
	18 6	18 0	17 6

Borax.—B.P. grade, 1 ton and upwards; Granular, £56; crystals, £59 10s.; powder, £60 10s.; extra fine powder, £61 10s. per ton, all in hessian sacks. Commercial from £46 to £51 10s. per ton, as to type and packing. Dehydrated borax is £59 10s. per ton, in pages lined hessian hage or £60. per ton in paper-lined hessian bags or £69 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s. Boric acid.—B.P. grade in 1 ton and upwards (per ton): Granular, £91; crystals, £99; powder, £96 10s.; extra-fine powder, £98 10s. per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical from £77 to £86 10s. per ton according to type and packing.

Chiniophon.—B.P. 1948, 67s, per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

CHLORAL HYDRATE, - O'ne-cwt, lots, 4s. 6d. per lb.

CHLOROCRESOL.—Pharmaceutical quality, 7s. 5d. per lb. (1-cwt. lots).

CINCHOPHEN.—One-cwt. lots 21s. per lb. CREAM OF TARTAR.—Home trade:—1-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4 cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.)

DEXTROSE. — In bulk, MONOHYDRATE, £76 per ton, delivered; ANHYDROUS, £115 per ton.

ERGOMETRINE.—MALEATE, B.P., 270s. per

Gualacols. — Liquid B.P.C., 16s. per lb. for 1-cwt. lots; Crystals, 15s. 9d.; Carbonate, 18s.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheeles from 3s. 10d. to 4s. 9d.

1soprenaline sulphate. — (Per gm.), 100-gm. lots, 1s. 6d.; 500-gm., 1s.; 1-kilo,

9d.

IRON SALTS.—GLUCONATE, B.P.C., 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P., crystals, 9\frac{1}{2}d. per lb. in 28-lb. lots; 1-cwt., 57s. 6d. per cwt., 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED, ls. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. Phosphate, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. Phosphate, Saccharated, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt. 3s. 6d. oxide red precipitated, B.P.C., 1949, 1-cwt. 2s. 1d. per lb.; Carbonate, Saccharated, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. Ammonium citrate, scales 3s. 6d. per lb. (5-cwt. lots). Ammonium Sulphate, 1-cwt., 1s. 10d. per lb. Quinnine citrate, 2s. 1d. per oz. in 100-oz. tin.

Lactose. — B.P., in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

METHOIN.—B.P., 120s. per lb.

METHYL PHENOBARBITONE. — B.P.C., 95s. per kilo for less than 25-kilo lots.

OXALIC ACID. — Manufacturers' rates for 1-ton lots, £128 10s. per ton, delivered in free kegs.

PARAFFINS. — Prices to wholesale distributors are: — Liquid: HEAVY, B.P., £102 2s. 6d. per ton; LIGHT B.P., £84; Technical White oils, £75 10s. for the LIGHT and £89 for the MEDIUM. All in 49–50 gall. returnable loaned drums, delivered U.K. Soft: WHITE, medium consistency is £110 15s, per ton and soft consistency £107 7s. 6d. Yellow, £88 10s., all B.P., in non-returnable drums delivered.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 6d.

SACCHARIN.—B.P.C. powder. One lb. and over, 99s. 10d. per lb.; SODIUM SALT, 80s. 10d. per lb. Prices include duty and carriage.

Salicylamide.—One-cwt-, 6s. 3d. per lb.; 5-cwt., 5s. 11d.

Salicylic acid.—One-cwt., 3s. $2\frac{1}{2}$ d. per lb.; 5-cwt., 3s. $0\frac{1}{2}$ d. per lb.

Santonin,-5-kilo lots, 400s. per kilo (11s. 4d. per oz.).

SILVER SALTS. — PROTEIN, 1-cwt. lots, 8 per cent., 36s. 3d. per lb.; VITELLIN, 68s. 6d.

TERPIN HYDRATE.—From 6s. per lb. upwards as to quantity.

TERPINEOL. — B.P. from 3s, to 3s, 6d. per lb. as to quantity.

THEOPHYLLINE .—50-kilo lots: ALKALO1D ANHYDROUS, 33s. per kilo and B.P., 31s. 9d. and 12½ kilos, 32s. 6d.; AMINOPHYLLINE, 31s. 6d. per kilo; 12½ kilos, 32s. 6d. per

THIOUREA.—Technical grade, 1-cwt. lots, 3s. 1½d. per lb.; 10 cwt., 2s. 9½d. per lb. THYMOL. — One-cwt. lots, 14s. 3d. per

UREA.—Pharmaceutical grade, £60 10s, per ton in 1-cwt. bags non-returnable; technical quality, £42 per ton (4-ton lots).

Alcohol

British spirit per proof gall.:-

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac. 66 o.p.); where the number of proof gall. taken over any one year ended March 31 is 300,000 or over 3s. 10\frac{1}{4}d.; 200,000 to 300,000, 3s. 10\frac{1}{3}d.; 100,000 and less than 200,000, 3s. 11\frac{1}{3}d.; 10,000 and less than 100,000, 3s. 11\frac{1}{3}d.; 2,500 and less than 50,000, 4s. 0\frac{1}{3}d.; 2,500 and less than 10,000, 4s. 0\frac{1}{3}d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall. drums there is a surcharge of two-pence per proof gall. pence per proof gall.

pence per proof gall.

Absolute Alcohol, 95.5 per cent., 74.5
o.p., from 4s. 2\frac{1}{4}d. to 4s. 4\frac{3}{4}d. for same quantities; the special high strength (99.9
per cent., 75.2 o.p.) from 4s. 4\frac{1}{4}d. to 4s. 6\frac{3}{4}d. Doubly Rectified Alcohol (S.V.R.)
95.8 per cent., 68 o.p., from 4s. 0\frac{1}{4}d. to 4s. 2\frac{3}{4}d.; and P.I. Rectified Alcohol,
96.1 per cent., 68.5 o.p., 4s. 1\frac{1}{4}d. to 4s. 3\frac{3}{4}d. R. R. Absolute Alcohol (re-rectified), 99.7 per cent., 75 o.p.), 14s. 6d,
per bulk gall. net,
Duty is £10 12s. 4d. per proof gall.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Great Britain are as follows:

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over. 5s. 8½d.; 100 gall. and under 500 gall., 5s. 11½d.; 40 gall. and under 100 gall., 6s. 3d.; 10 gall. and under 100 gall., 6s. 3d.; 5 gall. and under 100 gall., 6s. 3d.; 5 gall. and under 100 gall., 6s. 9½d.; 5 gall. and under 100 gall., 7s. 2d. Strength 64 o.p., ½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 3½d. more than the above rates with 74 o.p. at 6s. 6d.; 6s. 9d.; 7s. 0½d.; 7s. 6d. and 7s. 11½d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 0d. (tank wagon) for 500 gall. to 8s. 7½d. for 5–10 gall. (in drums) for 64 o.p. 64 o.p.

Pyridinised industrial methylated spirit: Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 11d.; 100 gall. and under 500 gall. (in drums), 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Mineralised methylated spirit: Strength 64 o.p. in one delivery, 100 gall. and under 500 gall., 6s. 4d.; 40 gall. and under 100 gall., 6s. 7\ddotd.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6.644 7s. $6\frac{1}{2}$ d.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

ACONITE, — 2s. 6d. per lb. - Spot: Spanish napellus,

AGAR.-Kobé No. 1, 15s. 9d. per lb. in bond.

ALOES.—Cape primes, spot, 185s. per cwt.; no offers for shipment. Curação, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.; CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 7s. to 10s., duty paid as to source. PERU: Spot, 9s. in bond. Tolu (genuine as imported): 25s., nominal, B.P., 12s. 6d. per lb.

BELLADONNA. — LEAVES (t.a. 0.53 per cent.), 1s. 9d. per lb. Dutch for shipment (t.a. not quoted) 2s., c.i.f. Root cleared on the spot.

Buchu. — Scarce. Spot rounds, 1960 crop, 5s. per lb.; 1958-59 crop, 4s. 3d. to 4s. 6d.

CALABAR BEANS.—Spot, 2s. 3d. per 1b.

CALUMBA.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

Camphor.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS.—Chinese, on stalk, 155s., duty paid.

Cardamoms. — Aleppy greens, spot cleared; prompt shipment, 13s. 7½d. per lb., c.i.f. Seeds, shipment, 21s. 6d., c.i.f.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 5d.; 3 O's, 5s. 3½d., O, 4s. 11d.; quillings, 3s. 2d.; featherings, 1s. 7d.

CLOVES.—Zanzibar spot, 2s. $9\frac{3}{4}$ d. per lb.; shipment, 2s. $6\frac{1}{2}$ d., c.i.f.

COCHINEAL.—Black-brilliant, 9s, 6d. per lb., silver-grey, 8s. 6d.; Peruvian silver-grey, 4s. 6d., all spot.

Cocillana. — Bark, 2s. per lb., spot; 1s. 8d., c.i.f.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS. — Purpurea for shipment, 11d. to 2s. 4d. per lb., c.i.f., as to test.

ELEM1.—Spot, 2s. 6d. per lb. nominal. Shipment, not offering.

Ergot.—Portuguese nominally 9s. 9d. per lb., c.i.f., for prompt shipment; spot, 9s. 3d.

Frangula.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 155s. per cwt. GINGER. — African, spot, 230s. and 215s., c.i.f. Jamaican No. 3, spot, 205s.; shipment, 195s., c.i.f. Cochin, shipment, new crop, 142s. 6d., c.i.f.; spot, 170s. (per

GUM ACACIA. — Kordofan cleaned sorts, 160s. per cwt., spot. November-December shipment. 142s. 6d., new crop, January-February, 142s. (both c.i.f.).

Henna. — Indian, spot, 105s. per cwt.; new crop, November-December shipment, 70s., c.i.f.

HONEY.—Australian light amber, 100s. to 105s. per cwt. and medium amber 95s. to 100s. Argentine, 110s. to 115s.; Jamaican, 110s. to 115s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA. — For shipment, c.i.f., per lb.—Colombian, 50s, 3d.: Costa Rican, 68s, 6d.; Nicaraguan, 66s, 6d. Spot: Matto Grosso, 53s, 6d. to 55s, as to test; Colombian, 55s, 6d.

Kola Nuts. — Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

KARAYA. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 225s.

LEMON PEEL.—Spot, 2s. 6d. to 3s. per lb. Linseed.—Whole, 75s. to 80s. per cwt.; crushed, 105s.

Lanolin. — Anhydrous, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and Hydrous, B.P., 150s., free drums, delivered.

LIQUORICE. — Natural root: Persian on the spot, 44s, per cwt.; Russian, 65s. and Anatolian decorticated, 175s. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—Dutch for shipment, 4s. per lb., c.i.f. American, c.i.f., value 8s.

MACE. — Whole pale blade, 23s. 6d. per lb. spot.

MENTHOL. — Chinese: spot, 90s. per lb.; afloat, 86s., c.i.f. Shipment, 84s. Brazilian, 57s., in bond; 56s. 6d., c.i.f.; Formosan, 58s., duty paid (55s. 6d. in

MERCURY. - About £70 10s. per flask of

NUTMEGS. — West Indian 80's 12s. per o., spot; sound unassorted, 9s. 6d.; lb., spot; so defectives, 7s.

Nux vomica.—Shipment, 90s. per cwt. c.i.f., subject to export licence.

Orange Peel. — Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s. 1d.; Spanish, 1s. 7d.; bitter ribbon,

Orris root.—Florentinc, 350s. per cwt. PAPAIN. — Tanganyikan, 12s. per lb., c.i.f., for grade one. Spot 13s. Ceylon all grades nominal.

PEPPER.—White Sarawak, spot, 5s. 3d. per lb.; shipment, 5s. 0d., c.i.f. Black Sarawak, spot, 4s.; shipment, 3s. 4d., c.i.f. Black Malabar, 460s. per cwt. spot, and 425s., c.i.f.

PEPPERMINT LEAVES. — Dutch whole, 1s. 9d. to 2s. 2d. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt.; shipment,

Podophyllum. — Emodi, 190s. per cwt.

Pyrethrum.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small

Quillaia. - Spot 230s. per cwt.; near shipment, 175s., per cwt., c.i.f.

RHUBARB. — Chinese small rounds from 5s. 9d. to 6s. 9d. per lb. on the spot.

5s. 9d. to 6s. 9d. per lb. on the spot,
SEEDS. — (Pcr cwt.). ANISE.—Spanish,
160s., duty paid. Caraway.—Dutch, 170s.,
duty paid. Celery.—Indian, 145s.; shipment easier at 130s., c.i.f. Coriander.—
Moroccan firm at 120s., duty paid; shipment, 110s., c.i.f. Cumin.—Indian, 185s.;
Iranian, 180s., duty paid. Dill.—Indian,
100s., spot; shipment, 87s., c.i.f. Fennel.
—Chinese unchanged at 105s., duty paid;
Indian, 125s. Fenugreek.—Moroccan now
65s., duty paid; shipment, 53s., c.i.f.
MUSTARD.—English, 67s. 6d. to 95s.,
according to quality.

Soull I—White 85s. per cwt. spot

SQUILL.—White 85s. per cwt., spot.

STRAMONIUM. — Indian Leaves 60s. per cwt., spot. Dutch 0.5 per cent. alkaloid 93s., c.i.f.

STYRAX. — Spot, 32s. 6d. per lb., shipment, 30s., c.i.f.

Tonquin Beans.—Para spot, 7s. 3d. per 1b. Shipment, 7s., c.i.f. Angostura 11s.

Tragacanth. — No. 1 ribbon. £145 to £150 per cwt No. 2, £135 to £140.

TURMERIC. - Madras finger on spot is 105s. per cwt.; November-December shipment, 92s. 6d., c.i.f., quoted.

Valerian Root. — Spot: Belgian, whole (max. $2\frac{1}{2}$ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared; new-crop prices awaited.

Vanillin.—Rates (per lb.) are now: 5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 6c. 56-lb., 23s. 9d.; smaller quantities, 24s.

WAXES. — (Per cwt.). BEES'. -Dar-es Abyssinian, spot, 485s.; shipment, 460s., c.i.f. Abyssinian, spot 410s. in bond; shipment 370s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 425s.; shipment, 380s., c.i.f. Carpetent 425s.; shipment 380s. 380s., c.i.f. CANDELILLA, spot, 460s. CARNAUBA, fatty grey, spot, 540s.; shipment, 520s., c.i.f.; prime yellow, spot, 750s.; shipment, 725s., c.i.f. 380s.,

Essential and Expressed Oils

AMBER.—Rectified on the spot, 1s. 6d. per lb.

Anise.—Chinese, 6s. 8d. per lb., spot; shipment, 6s. 5d., c.i.f.

BAY.—West Indian, 12s. per lb. on the

BERGAMOT.—Spot, from 72s. 6d. per lb. Bois DE Rose.—Brazilian, 15s. per lb. on the spot and 14s. 9d., c.i.f.

CADE. - Spanish, 3s. 6d. per lb. for drum lots.

CAMPHOR, WHITE.—Chinese, 1s. 8d. per lb. in bond; 1s. 5d., c.i.f.

CINNAMON. — From quillings, best English-distilled is 50s. per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot, 10s. 6d. per lb.; Seychelles, 8s. 6d., spot.

CITRONELLA. — Ceylon, spot, 6s. 7d.; shipment, 6s. 3d. per lb., c.i.f. Formosan, spot, 6s. 4½d., in bond; shipment, 6s. 3d.,

CLOVE.—Madagascar leaf, spot, 8s. per lb., duty paid; shipment, 7s., c.i.f. Rectified 87–88 per cent., 12s. Distilled bud-oil, English, B.P., 30s. to 31s.

LAVENDER SPIKE.—Spanish, 12s. per lb. for original drums.

Lemongrass. — Spot, 13s. 6d. per lb., nominal and shipment, 13s. 3d., c.i.f.

NUTMEG.—Imported B.P. oil is 90s. per lb. English-distilled 100s.

PATCHOULI. - Penang is 42s. 6d., duty paid and 40s., c.i.f., per lb.

Pennyroyal. — Spot is firmer at 15s. per lb. duty paid.

PEPPERMINT. — Arvensis: Chinese spot, cleared. Brazilian, 17s. 3d. per lb. spot and shipment, 16s. 9d., c.i.f.; new-crop, 16s. 3d. Piperita: Italian "Mitcham-type" nominally 55s. per lb., c.i.f., for new crop. Bulgarian, B.P., 32s. 6d. American, 36s. per lb.

Petitgrain.—Paraguay, 18s. 6d. per lb., spot; shipment, 17s. 9d., c.i.f.

PINE. — Pumilionis on the spot is 16s. per lb.; sylvestris, 25s.; Siberian (abietis), 12s. 6d. to 14s.

Rue.—Spanish is 25s. per lb. spot.

SAGE.—Spanish, 8s. per lb.; Dalmatian,

Sandalwood.—Mysore 150s. to 155s. per lb. Australian, 70s.

Sassafras.—Brazilian is from 3s. 6d. per lb., duty paid.

SPEARMINT.—American oil on the spot about 50s.

TANGERINE.—From 22s. to 31s. per lb., as to quality, spot.

YLANG YLANG.—Spot, 37s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, NOVEMBER 8: Natural MENTHOL prices eased again to make the Brazilian \$8.75 a lb., down five cents, and the Formosan, \$8.70, down 10 cents. CYANOCOBALAMIN prices declined sharply to record low levels because of keen competition from Europe and Japan. The concentrated was slashed to \$52 per gm. from a previous rate of \$85 while the crystalline 87 per cent, U.S.P. grade was cut to \$45 from a former level of \$83. Chilean and domestic crude IODINE were held at the recently advanced level but it was understood that iodine from Japan was selling at under the Chilean rate.
Among CRUDE DRUGS powdered AGAR was advanced by 15 cents to \$2.65 a lb. Lower per lb. among ESSENTIAL OILS were distilled LIME at \$5.25 a lb., down 50 cents, and Bourbon GERANIUM at \$22, down \$1.75.

TRADE MARKS APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," October 26 For pharmaceutical preparations for use in the treatment of the skin, and chemical products for use as bases in the manufacture of said preparations (5)

VERIDERM, 807,423, by Upjohn of England, Ltd., Crawley, Sussex.

For scientific and electrical apparatus and instruments, etc., photographic, cinematographic, optical, weighing and measuring, apparatus and

instruments, etc. (9)
Device, 798,906, by Thom-Selle, Paris, France,

For paper and paper articles (16)
SANEK, 794,087, by Kimberly-Clark Corporation, Ncenah, Wisconsin, U.S.A.

From the "Trade Marks Journal," November 2 For cosmetic preparations (not being toilet preparations) (3)

PEL, B792,622, by Imperial Chemical Industries, Ltd., London, S.W.1.

For cleansing preparations and detergents (not for use in industrial and manufacturing processes) (3)

SAN-MEX SPARKLE, 795,780, by British Products Sanmex Co., Ltd., Rutherglen, near Glasgow

For non-medicated toilet preparations for use on the eyelashes (3)

LASHBRITE, B801,000, by Moulded Packs, Ltd., Chessington, Surrey,

For perfumes, non-medicated toilet preparations. essential oils, cosmetics, lotions for the hair, and perfumed soap (3)

Device with words ROGER & GALLET, PARIS, SANTALIA, 807,236, by Roger & Gallet, Paris 8e. France.

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles not included in other classes, sachets for use in waving the hair, and soaps (3) and all goods, but not including toilet paper (5)

Device with words DOUBLE STAR, 804,296-97, by A. W. Dobbs & Co., Ltd., Herstmonceux, Sussex.

For pharmaceutical preparations and substances for human and veterinary use; and sanitary substances and disinfectants; all containing sodium chloride (5)

COMOSAL B799,441, by Imperial Chemical Industries, Ltd., London, S.W.1.

For pharmaceutical substances and preparations, all for the treatment and prophylaxis of nephrolithiasis (5)

LITRENAL 794,202, by Rhein-Chemie, G.m.b.H., Mannheim, Germany.

For pharmaceutical preparations and substances in tablet form (5)

SPANTABS, 784,821, by Smith, Kline & French Laboratories, Ltd., Welwyn Garden City, Herts. For all goods (5)

or att goods (5)
VALLEDRINE, 793,662, by May & Baker,
Ltd., Dagenham, Essex, PAVISYN, 804,881,
by Parke, Davis & Co., Detroit 32, Michigan,
U.S.A., and Hounslow, Middlesex, REDISOL-H, 802,110, CREMOSTREP, 806,451, by Merck & Co., Inc., Rahway, New Jersey, U.S.A.

For pharmaceutical preparations used in the treatment of arteriosclerosis (5)

LINOSCLERIN, 802,382, by Uni-Chemie, A.G., Zurich 37, Switzerland.

For pharmaceutical preparations in tablet form containing compounds of amyl (5)

BANAMYL, 803,756, by Wigglesworth, Ltd., Westhoughton, Lancs.

For pharmaceutical chymotrypsin preparations for oral administration (5)

CHYMORAL, 803,766, by Armour & Co., Chicago 9, Illinois, U.S.A.

For ear drops being pharmaceutical preparations (5)

EARGEN, 806,720, by Laboratories for Applied Biology, Ltd., London, N.16.

For domestic utensils and containers (not of precious metal or coated therewith) (21)

SUBA-VAC PAC, 802,370, by William Free-man & Co., Ltd., Barnsley, Yorks.

For cameras and projection apparatus, all being cinematographic or photographic; enlargers, lens

hoods, light meters and holders therefor, and filter holders, all being photographic; camera tripods; and electronic and capacitor flashguns for photographic purposes (9)

VELBON, 806,914, by Julius Joseph Silber, London, W.C.I.

For electrical and electronic apparatus and instruments, photographic, cinematographic, weighing, measuring and teaching apparatus and instruments, binoculars, etc. (9)
GUSSIE, 799,998, by Great Universal Stores,

Ltd., Manchester, 12.

For chemical preparations for use in medicine and pharmacy (5)
PRIMOBOLAN, 806,692, by Schering, A.G.,

Berlin (West) N65, Germany.

or photographic apparatus and parts (9) FOCAMATIC, 796,477, by Optique et cision de Levallois, Levallois Perret (Seine). France.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," November 2

Resin-drug compounds, Clinical Products, Ltd. 857.193.

Coating of shaped medical preparations. Lowey. 857,550.

Therapeutic agents comprising ion-exchange resins. Clinical Products, Ltd. 857,194.

Pharmaceutical compositions. Chemische Fabrik Promonta, G.m.b.H. 857,243. Substituted acridans, Smith Kline & French Lab-

oratories, 857,159.

Production of sterile packages. Alpura, A.G. 857.094.

Substituted pyrrolidines. May & Baker, Ltd. 857.426.

16-substituted steroid compounds, British Drug Houses, Ltd. 857,114.

Benzene disulphonamides, British Drug Houses, Ltd. 857,435.

Quinazoline derivatives, Imperial Chemical Industries, Ltd. 857,362. Analgesics and antipyretics. Orsymonde, S.A.

857,388. Trifluoromethyl-phenothiazine derivatives.

Mathieson Chemical Corporation. 857,546. Polyvinyl alcohols of high solution viscosity and process for their manufacture Farbwerke Hoechst A.G. Vormals Meister, Lucius, & Brüning. 857,147.

Sulphonylurethanes and process for their manufacture, Farbwerke Hoechst A.G. Vormals Meister, Lucius, & Brüning, 857,148.

Method of counteracting the formation of precipitates and discolorations and of sequestering iron in aqueous media, Benckiser G.m.b.H. Chemische Fabrik, J. A. 857,518.

Process for the manufacture of basically substi-tuted 3-alkyl-phenothiazines. Farbenfabriken Bayer, A.G. 857,418.

Process for the manufacture of carbon tetra-chloride, Farbwerke Hoechst A.G. Vormals chloride. Farbwerke Hoechst A.G. Meister, Lucius, & Brüning. 857,086.

Propagation of fungi. C. L. Duddington, M. Lumb and G. D. Wilkin. 857,160.

Propagation of fungi. Boots Pure Drug Co., Ltd.

857,161.

Process for the preparation of tridecane-1:13dicarboxylic acid or its ester, suitable for the preparation of exaltone (cyclopentadecanone). Council of Scientific & Industrial Research. 857.163.

Esters of cyclolleximide and pesticidal composi-tions containing same, Upjohn Co. 857,167.

Dipyridyl derivatives, Imperial Chemical Industries, Ltd. 857,501.

Method of and apparatus for grinding and/or dispersing a solid suspended in a liquid. Coates Bros. & Co., Ltd. 857,298.

Manufacture of resorcinal. Distillers Co., Ltd. 857 113

Preparation of persulphates. Food Machinery & Chemical Corporation, 857,385.

Production of a-hydroxy-β, β-dimethyl-y-butyro-lactone. Nopco Chemical Co. 857,128. Substituted biguanides. C. F. Boehringer & Substituted biguarides.

Soehne G.m.b.H. 857,576. Trifluoromethyl-phenothiazine derivatives. Mathieson Chemical Corporation, 857,547.

Cyclopentanophenanthrene derivatives and process for the production thereof. Syntex, S.A. 857,080, 857,081. Purification of pyretheum extracts and the production of synergized pyrethrin compositions
McDougall & Robertson, Ltd. Cooper, Robertson, 857.541

Benzyl dithiocarbamates and their use in bacteriostatic products. Monsanto Canada, Ltd.

Triazine derivatives, their preparation and compositions containing them, Shell Research, Ltd. 857 166

Urea-phosphoric acid cleaning composition, E. F. Drew & Co., Inc. 857,119.

Dithia-anthracene derivatives and fungicidal compositions containing them, E. Merck, A.G. 857,383.

Hydrazine salts of aryloxy aliphatic carboxylic acids, and method of producing same. Imperial Chemical Industries of Australia & New Zealand, Ltd., and Commonwealth Scientific & Industrial Research Organization, 857,063.

Tertiary amine salts of chlorinated carboxylic acids and their use as weed-killing and weed growth inhibiting agents. Badische Anilin- & Soda-Fabrik, A.G. 857,387.

Holders for safety razor blades. Choclin Hermanos, S.R.L. 857,264.

Shaving heads for dry shavers. O. Hubner. 857,095.

Severing of glass tubing, General Electric Co., Ltd. 857,527.

Cosmetic, therapeutic and veterinary applicators. J. W. P. Faint. 857,211.

British patent specifications are obtainable (price 3s. 6d. each) from The Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

EXPANSION PLANS

THE Drayton Regulator and Instrument Co. have formed Drayton Castle, Ltd., in partnership with Wilmot Castle Co., Rochester, New York, U.S.A., who manufacture hospital equipment. The object of the company is to manufacture and sell a comprehensive range of hospital equipment in Britain which will include equipment for sterilising by steam, gas and irradiation, operating theatre tables, etc. Manufacturing will be carried out at the Bridge Works, West Drayton, which the Drayton Regulator and Instrument Co. have recently acquired.

MANY of the Tees-side plants of Imperial Chemical Industries, Ltd.'s heavy organic chemicals division at Wilton and Billingham are currently being modified to obtain substantially greater outputs with little additional expenditure. capital Manufacturing capacity for high-purity ethylene from the three olefine plants at Wilton is being stepped up from 120,000 tons a year to about 140,000 tons; there will be corresponding increases of the other products of those plants, for example propylene, butadiene and butenes. The capacity of the acetone plant is being expanded from about 28,000 tons to 36,000 tons a year by mid-1961. Following a considerable expansion in the production of phenol at Billingham, new equipment is being installed in the phenol by-products plant complex to enable the combined production of Topane brand ortho-phenylphenol and para-phenylphenol to be raised from some 650 tons to 1,000 tons a year by the end of 1961. The two para-xylene plants at Wilton are being modified to give a further large rise in capacity. Rapid progress is being made with the heavy organic chemicals division's new plants at Severnside, South Glos, for making 35,000 tons a year of ethylene oxide, ethylene glycol and associated products.

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PRODUCTS



LINC-O-LIN Beer Shampoo

The genuine beer content in LiNC-O-LIN Beer Shampoo brings out the richest tones in the duilest hair, and gives 'body' and 'weight' to fine hair. Suitable for all types of hair, this is the shampoo that creates customer good-will.

The genuine Beer Shampoo with the 'best bitter' flavour in four fascinating packs:

Box of 6 'Magnum' packs (each containing over 20 shampoos)

16/- plus 4/- P. Tax (Retail 4/6 each)

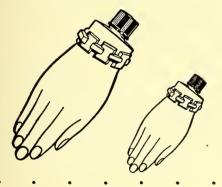
Box of 3 daz. single sachets 15/- plus 3/9 P. Tax (Retail 9½d. each)

Box of 3 doz. Twin Packs (two shampoos—'His' and 'Hers')

20/- plus 5/- P. Tax (Retail 1/- each)

Box of 1 doz. Baby Barrels (each containing four shampoos)

14/8 plus 3/8 P. Tax (Retail 2/3 each)



LINC-O-LIN Hand Cream

Something unique in packaging and in hand creams. Delightful 4 oz. and 1 oz. hand shaped packs in three lovely pastel shades. Your customers will see instant results after only one application of this wonderful cream with its fresh, clean perfume.

Box of 1 doz. 4 oz. packs.

£1/8/0 plus 14/- P. Tax (Retail 4/11 each)

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Box of 1 doz. 4 oz. Refills.

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Never before has a hair treatment been so universal! Several functions performed in one application. Reconditions—stops breakage and splitting—restores elasticity—controls dandruff—restores overbleached, overpermed hair to silky suppleness. This delightfully perfumed Treatment is marketed in white polythene packs—enough for four applications.

Box of 1 daz. 2 oz. bottles.

16/- plus 8/- P. Tax (Retail 2/9 each)

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IVORY NATURAL PEACH SUNGOLD
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TRADE 7/6 doz., 12/3 doz., RETAIL 1/3 ea. 2/1 ea.
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New dense soft coat... healthy skin... all-round improvement in general condition



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Now available in 50 microgramme ampoules for intramuscular injection for the treatment of

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This year the amount of money invested in Dettol advertising is more than ever before.

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'Ilosone' is an important development in antibiotics. It is the lauryl sulphate salt of propionyl erythromycin ester, which has been shown to give earlier, higher, more prolonged and more consistent antibacterial activity than any other antibiotic of the erythromycin group. 'Ilosone' has a specific spectrum, and in normal dosage does not destroy the colon bacillus. It is supremely safe, causing neither serious toxic reactions nor allergic symptoms. In common bacterial diseases such as pneumonia. bronchitis, breast abscess, otitis media and many other infections, 'Ilosone' is eminently suitable for prescribing as a

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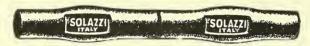
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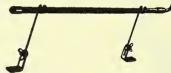
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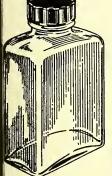
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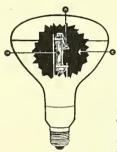
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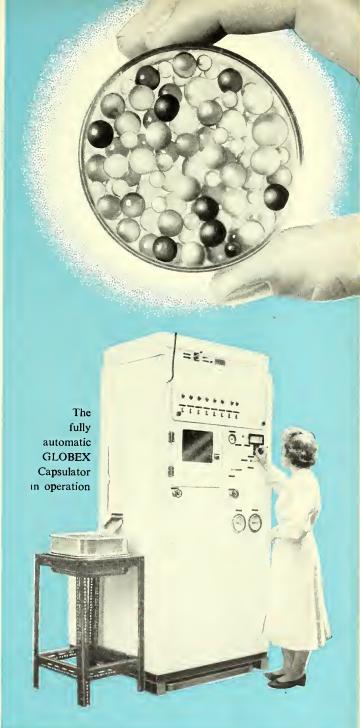
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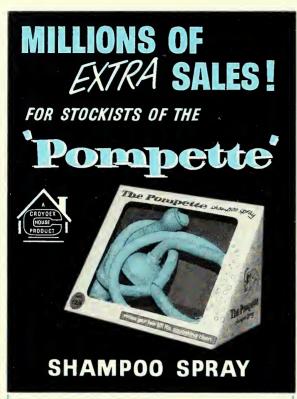
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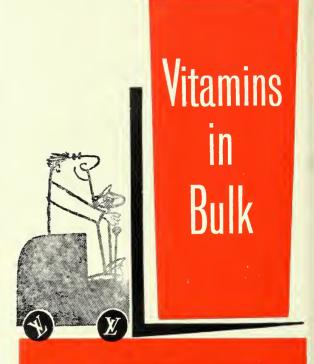
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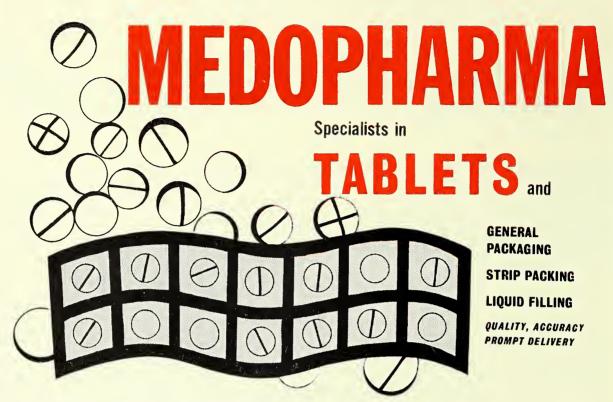


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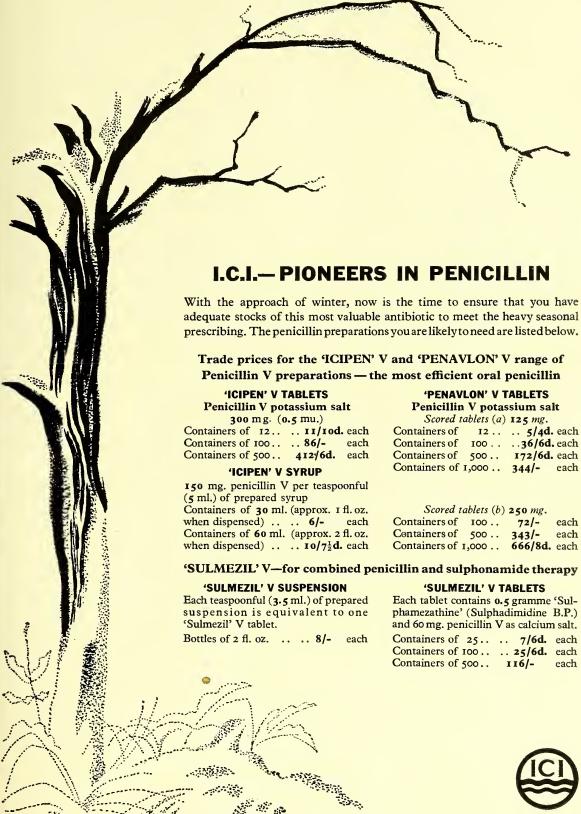
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transid

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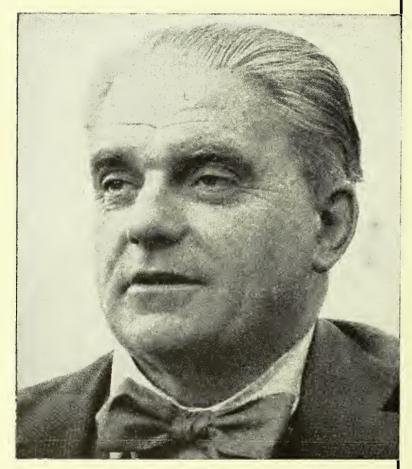
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"BRITAIN'S DRUG BILL NOT EXCESSIVE" SAYS LORD BOOTHBY

PRICE OF MEDICAL CARE CONSTANT FOR FIFTY YEARS



Opening Winthrop House, the new Surbiton offices of Winthrop Group, Ltd., the Rt. Hon. Lord Boothby, K.B.E., Ll.D., spoke trenchantly on the subject of British expenditure on pharmaceutical benefits. He pointed out that the proportion of income per head of population spent on pharmaceutical services in the majority of countries which do not have a free health service is higher than in Britain. "This is true," said Lord Boothby, "not only of the total expenditure on pharmaceutical benefits, but, in addition, the expenditure by the State or private insurance in these countries is also a higher percentage of per capita income than in Britain."

A MOST REMARKABLE FACT

Lord Boothby went on to discuss the question of drug costs. "We are told that it is necessary to curb the rising cost of drugs, yet in fact expenditure on drugs has always represented the same proportion of total National Health Service expenditure. This is true in spite of the enormous benefits from new, more complex, and therefore more costly drugs. At the present time about 3.7% of the national income is spent on the National Health Service. Going back over 50 years, to before the First World War, published figures show that this proportion has remained almost constant. This is a most remarkable fact when one considers the social and economic revolution which has occurred in the last half century."

LORD BOOTHBY LAUNCHES VIRUGON

At the end of the opening ceremony, Lord Boothby pressed a remote control button which set into motion machinery at the Winthrop Newcastle factory for the manufacture of Virugon. A new preparation of the Bayer

Products Division, Virugon is the first anti-viral synthetic. It will be available in Britain from November 1st, 1960, and is of proved value in the prophylaxis and treatment of influenza, measles, mumps, chicken pox and herpes zoster.

Winthrop Chairman on "Obligation to Make Profits"

In welcoming Lord Boothby, the Chairman of Winthrop Group Ltd., Mr. L. M. Spalton, B.Pharm., M.P.S., said: "The pharmaceutical industry is a free enterprise institution which to survive has an obligation to make profits, and whose members compete strenuously one with another. They compete to find the next advance in therapeutics, and their fine record is so well known to you that I will not repeat it here. They compete to assist the medical profession in any and every way it is within their power or ingenuity to do. They compete to sell and to earn foreign currency for Britain. They compete continuously against themselves and obsolescence. For so dynamic is this industrial quest for knowledge that few drugs can anticipate widespread use for more than about five years."

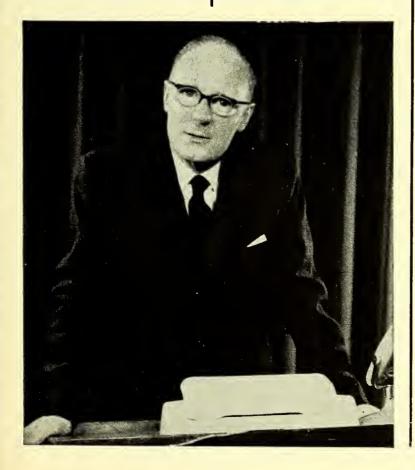
Mr. Spalton went on to point out that it was time that the contributions of the pharmaceutical in-

dustry were more generally recognised and that the competitive circumstances with which it had to grapple—and incidentally the advantages that competition brought—were seen in proper perspective.

QUOTES

Answering the Prime Minister's call

"Four years ago we built in Newcastle-upon-Tyne the most highly mechanized pharmaceutical factory to be completed in post-war Britain. Today nearly 50% of the output of that factory goes overseas. Our pharmaceutical business in Britain is the fourth largest. The Prime Minister recently called for a great band of merchant adventurers to sell British goods overseas. I believe that we in Winthrop have already begun to act in the spirit and the letter of that call."



Transcending National Barriers

"Why do our international company of people find co-operation possible, where elsewhere it is so difficult to obtain? I believe this happy state is due to their possession of a common purpose which tran-scends national barriers, and the job satisfaction that comes from rendering a service of immense value to their fellow men.3

Plaquenil breaks through the Iron Curtain

'Winthrop people know no barrier of nationality, race, creed, or colour, save the Iron Curtain. And whilst that barrier at present resists Winthrop people, it is not impervious to Winthrop products. Today Planquenil, our latest contribution to the treatment of rheumatoid arthritis, is being exported to treat patients in Czechoslovakia and Poland, and is under clinical evaluation in Moscow.'

THE WINTHROP GROUP

Winthrop Group Ltd. comprises companies and divisions operating throughout Western Europe which, individually and collectively, are concerned with the discovery, development, manufacture and distribution of pharmaceutical products. In this country the Group includes Bayer Products and Winthrop Laboratories. Winthrop House is the new British headquarters.

CONTROVERSIAL MEDICAL **EXHIBITION** EXTENDED

"Medicine Men of Today", the exhibition originally designed to mark the opening of Winthrop Group's new headquarters at Surbiton - upon - Thames, has aroused so much comment, and attendance is such that it is now being extended until Friday, the 25th of November.

The hours of the exhibition are: Mon.—Thur. and Sat.: 11 - 8.30; Fri.: 11-4. Travelling time from Waterloo station is about 15

Pharmacists and their friends are warmly invited to visit the exhibition.

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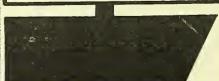




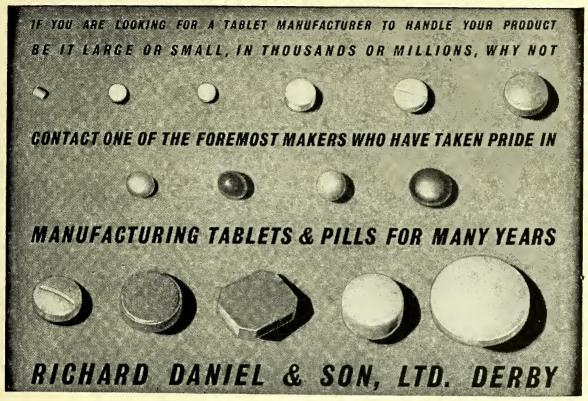
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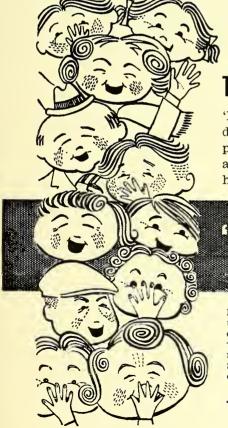
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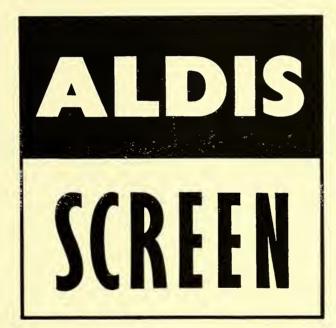
For average-size rooms. 2 in. x 2 in. slide projector with 8.5 cm. lens will fill the screen at 8 ft. distance. £5.19.6

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The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 174

November 12, 1960

No. 4213

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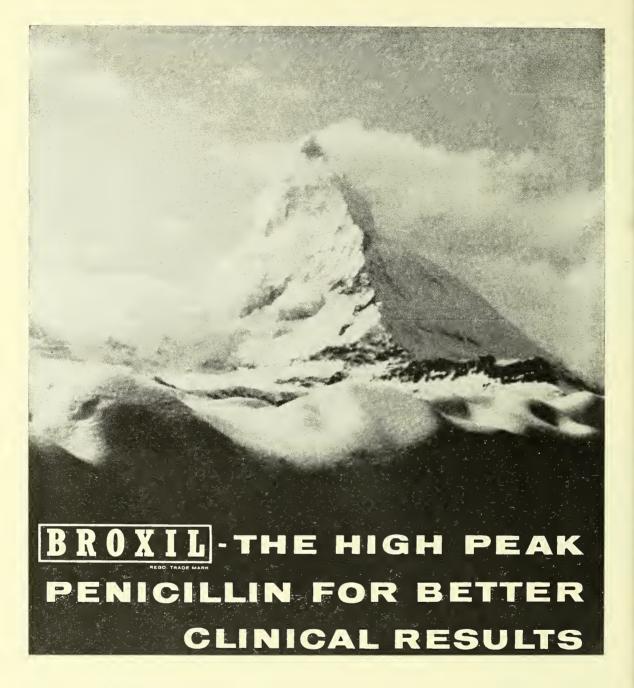
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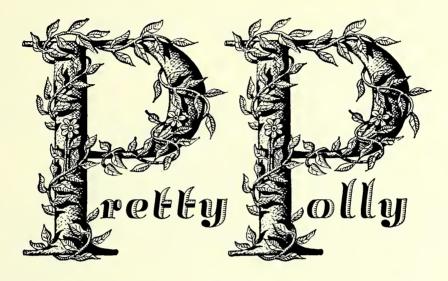
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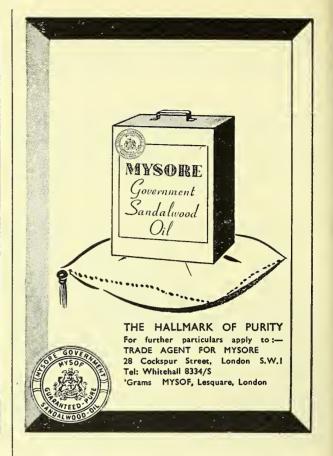
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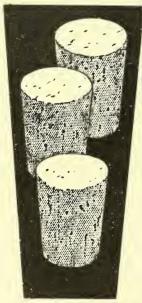
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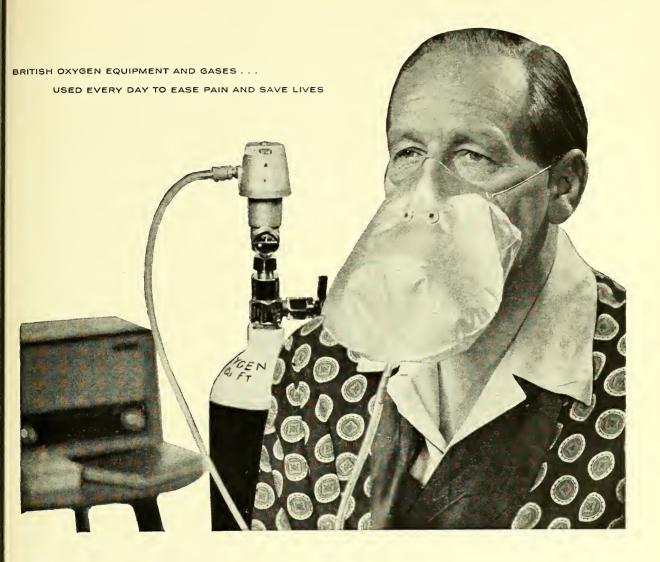
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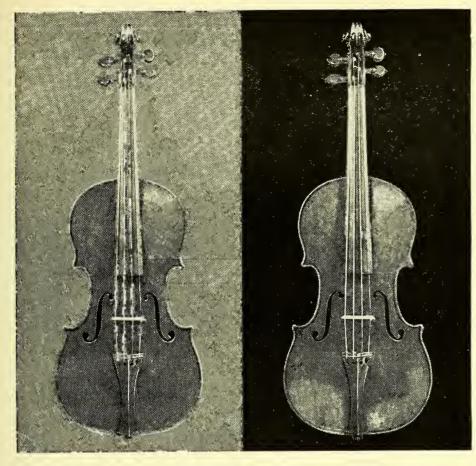
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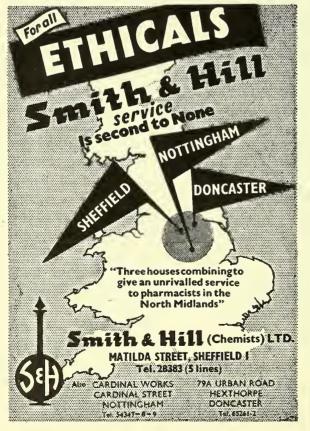
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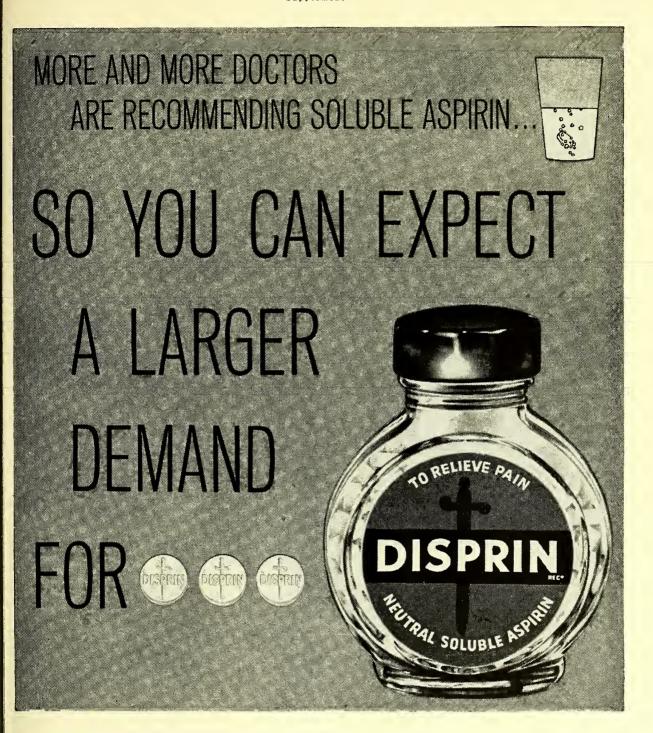
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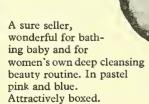
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The finest of hair lacquers with a delightful perfume available in the new Super Spray 2½ oz. polythene bottle (various colours) in attractive individually packed cartons, and boxed in 1 doz, units in eye-catching display outers. Refill sachets also available packed in 2 doz, outers retail



Egg and Lemon
CREAM SHAMPOO Retails at 3/9

24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoos, tubes 9d.; 3 individual shampoos linked together 10½d, all packed in well-designed display outers.



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An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick drying action holds the hair, removes tangles, leaves hair free from all deposits and with a beautiful lustre.



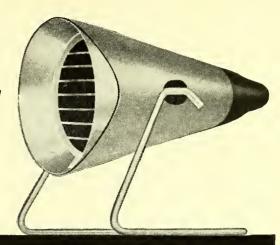
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Here's a new Philips 'Infraphil' with an important new feature — Concentrated Beam. In fact, Philips new 'Infraphil' provides infra-red heat in its most effective, most convenient form. It has a new bulb with a prismatic lens front and a special internal reflector that combine to *concentrate* the rays onto the actual pain area, giving faster, more effective relief. The new 'Infraphil' has also been re-designed for easy, comfortable use, no matter what part of the body is being treated.

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Advertisements in selected magazines and TV participation spots will be widely used this winter to put over the new 'Infraphil'— with special emphasis on Concentrated Beam.

Colourful display material is available to carry the sales message right to the point of purchase. Dealer advertisements, with space for your name and address, are also available. And special mailings will tell doctors all about this superb new lamp. So, when heat treatment is prescribed, you'll be selling Philips new 'Infraphil'!

This is PHILIPS PHILIPS Concentrated beam NFRAPHIL

PRICE £4.17.6

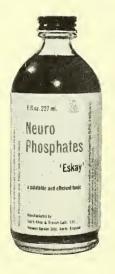
Philips 'Infraphil' is only available to customers who have medical certificates.

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Benzedrex Inhaler

gives effective and prolonged relief of nasal congestion. In the handiest form for pocket or handbag, it can be used inconspicuously under all conditions and contains no messy fluids.



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constipation.



Calsalettes $1/8\frac{1}{2}$ and $6/8\frac{1}{2}$

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12 x 30 roll packs 24/- per case 24 x 10 roll packs 23/- per case

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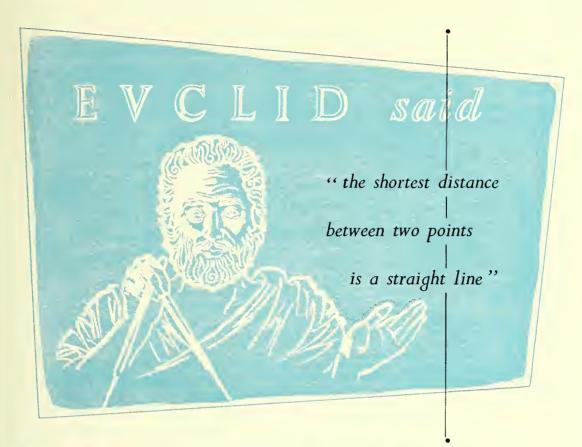
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ROTER achieves a high cure rate and often gives effective control of even refractory chronic cases which have resisted other treatments.

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REFERENCES

Therapie der Gegenwart, 1953, 3, 108 Gazzetta Medica Italiano, 1954, 113, 343 Die Medizinische, 1955, 4, 163 British Medical Journal, 1955, 2, 827 Compt Rendus de la Société de Biologie, 1956, 150, 1019 American Journal of Gastroenterology, 1957, 28, 439 Wiener Medizinische Wochenschrift, 1958, 108, 218 Ärztliche Praxis, 1958. 10, 766 Journal Lancet, 1960, 80, 37

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NEW DEVELOPMENT—Cardiff centre. Shop to be completed in six months' time, valuable as chemists, on seven-year lease, for further details please apply Wm. Sterry Evans, F.A.I., 50 Charles Street, Cardiff 22681/2. C 3263

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NEAR LONDON. Smart double-fronted shop with modern house, splendid trading position in main road shopping centre of large growing in main road shopping centre of large growing industrial town. Turnover exceeds £6,000 (excluding N.H.I.). No opposition, Kodak, Present hands 28 years, owner retiring, Garage and garden. G.w. and fittings £1,700, s.a.v. Long lease, £364 per annum, Freehold available. Box C 3262.

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APPOINTMENTS

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Senior Pharmacist
for Bethnal Green Hospital, Modern department approved for training students. Salary scale £770—£1,010 p.a., plus higher qualification allowance and London Weighting, Please apply with details of age, training and experience to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

DOVER GROUP OF HOSPITALS

Senior Pharmacist
Applications are invited for the appointment of Senior Pharmacist at the Dover Group of

of Senior Pharmacist at the Dover Group of Hospitals.
Salary £770 a year rising by one annual increment of £30 to £800 a year by six annual increments to a maximum of £1,010 a year. Applications stating age, qualifications and experience, together with the names and addresses of two referees, should be made to the Hospital Sccretary, Buckland Hospital, Union Road, Dover, by not later than 14 days after the appearance of this advertisement. C 6039

PHARMACEUTICAL JOURNALISM

THE CHEMIST AND DRUGGIST has an Editorial vacancy for a young male pharmacist. Applicants should have had experience after qualifying (whether in retail, hospital or manufacturing) and should be able to write plain grammatical English. 'Salary and conditions of work are good with 5-day week, 3 weeks' holiday, superannuation scheme and bonus. Apply in writing, giving age, qualifications and experience to the Editor, THE CHEMIST AND DRUG-GIST, 28 Essex Street, London, W.C.2.

BLACK NOTLEY HOSPITAL, BRAINTREE, ESSEX Assistant-in-Dispensing

required. Permanent and pensionable appointment. Salary and conditions according to Whitley Council Scales, Previous hospital experience. Certificate of the Society of Apothecaries, R.A.M.C., R.A.F., or equivalent qualifications taken into account for commencing salary.

Interesting post, covering wide sphere of activity. Good residential accommodation avail-

Applications giving age, present and previous experience with names and addresses of two referees to Hospital Secretary from whom further details may be obtained. C 5988

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OF THE CHES1
Senior Pharmacist
Applications are invited for the above post at the London Chest Hospital, Salary in accordance with the Whitley Council scales, Applications, stating age, qualifications and experience, accompanied by two testimonials, to the House Governor, London Chest Hospital, E.2.

C 6008

KING EDWARD VII HOSPITAL, WINDSOR

Assistant-iu-Dispensing required. Applications with full particulars to Secretary, King Edward VII Hospital, Windson

DARENTH AND STONE HOSPITAL MANAGEMENT COMMITTEE

DARENTH PARK HOSPITAL FOR MENTALLY SUBNORMAL, Nr. DARTFORD, KENT

(Category II) Chief Pharmacist

Applications are invited for the post of Chief Pharmacist at this Hospital, Salary £895 to £1,200 per annum plus "Dartford" Weighting allowance of £10 to £30

ford "Weighting allowance of according to age, Accommodation available at moderate charges for single female candidate. Applications, stating age, experience, together with the names of two referees, to be forwarded to: The Physician C 6010

LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1

Assistant-in-Dispensing
required. Whitley Council salary scale and
conditions of service, Applications in writing
with full details and the names of two referces, to be sent to the Chief Pharmacist
(Tel.: S1Epney Green 4251). C 5962

KING EDWARD VII HOSPITAL, WINDSOR

Locum Pharmacist
required at King Edward VII Hospital, Windsor, Applications with full details to Secretary.
C 6032

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1 Pharmacist

Pharmacist required at the above hospital from 7th November 1960. Whitley Council salary scale and conditions of service. Applications in writing, with full details of age, qualifications, experience, etc., and the names of two referees to be sent to the Chief Pharmacist. C 5963

LONDON JEWISH HOSPITAL,

LONDON JEWISH HOOK
STEPNEY GREEN, E.1
Locum Assistant-in-Dispensing
required. Applications to be sent to the
Pharmacist (Tcl.: STEpney Green 4251).

C 5965

LONDON HOSPITAL, WHITECHAPEL, E.1

Pharmacist
required—Salary £690—£920 according to previous experience and service, Applications to
House Governor, C 522

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£18 18s, per week. Applications to be sent
to the Chief Pharmacist (Tel.: STEpney Green
4251). C 5964

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Assistant-in-Dispensing required. Salary and conditions of service in accordance with Whitley Council Agreement. Applications, stating age and experience together with the names of two referees, to Group Secretary, "Willerby House," Cumberland Street, Macclesfield, Cheshire. C 6044

NEWMARKET GENERAL HOSPITAL NEWMARKET Assistant-in-Dispensing

required. Preference to applicants with hospital experience. Apply to Secretary. C 6042

SOUTH OCKENDON HOSPITAL Nr. ROMFORD AND GRAYS, ESSEX

Assistant-in-Dispensing
Applications are invited from suitably qualified or experienced persons for the above post at the above hospital. Salary according to age 18 to 21 years £225—£330 a year; at 22 years and over within scale £395 x £20 (7) to £535, Additional £50 per annum payable to holders of either the Certificate of the Society of Apothecaries of London; the Dispensing Certificate of the R.A.M.C. or R.A.F. or approved equivalent. Applications to the Group Secretary, Leytonstone House, High Road, Leytonstone, E.11.

WOKING & CHERTSEY GROUP H.M.C ST. PETER'S HOSPITAL, **CHERTSEY**

(415 beds) **Pharmacist** Applications invited for the above post at this hospital, Whitley Council conditions, Hous-

Applications stating age, qualifications and experience, together with names of two referees to Administrative Officer. C 6025

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DISPENSING ASSISTANT required for congenial situation in seaside pharmacy, Good salary, help with accommodation, Apply Wm. Challice, Ltd., West Town, Hayling Island, Hants, Tel.: 77866.

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MAY & BAKER LTD., Dagenham, Essex, invites applications from single young men, aged 23 or over, for an important vacancy on the sales force of their Branch Organisation in Rhodesia. It is envisaged that the appointment will be made either to a pharmacist or graduate in Natural Science, but consideration will also be given to unqualified personnel against evidence of a sound medical/pharmaceutical background. Duties will involve promotion of the Company's products to the medical, veterinary and allied professions as well as to trade. Salary will be fully commensurate with the educational standards and high personal qualities required, and there are increasing opportunities for promotion to executive level both at home and abroad. The Company operates a contributory pension fund and life assurance scheme. Apply initially in writing to the Personnel Officer quoting reference 182/60.

C 6026

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Applications are invited from experienced Representatives for three new territories created by expansion, as follows-

Lancashire, Cheshire, North Wales.

Yorks, Derby, Nottingham.
Eastern Counties, East Midlands, Home Counties.

Experience and connection required in Hospitals and Wholesalers in these areas.

Remuneration will be by salary and expenses and a Company car is provided.

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Man or Woman aged 25 or over required for a Category I Post at H.M. PRISON, DURHAM. Salary scale £815-£1,110.

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Apply Establishment Officer, Prison Commission. Horseferry House, J.B./311, Dean Ryle Street, London, S.W.1. Closing date 21.11.60 C 6029

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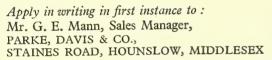


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Salary will be based on age and experience. Subsequent adjustments will recognise initiative and ability. Company car provided. Generous pension and life assurance plan in operation. This is a first class opportunity to make a successful career with a leading pharmaceutical organisation.



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ALLEN & HANBURYS, LTD. LONDON, E.2 Representatives

Pharmacists are required to call on Doctors and Chemists in the London and Birmingham areas, Training will be given and the salary is commensurate with qualifications and experience. A car is provided and full expenses are paid. Full details to Personned Manager, quoting No. L/M. C 6012

ASSISTANT CHEMIST (perfumery) required by well-known perfumery house in the Midlands area. Age 20-35 with previous experience. This is a pensionable post with excellent prospects. Assistance with accommodation is available. Applicants should write with full details to Box C 3270.

FOOD ANALYST required for new and progressive company starting up the manufacture of food and pharmaceutical products. Good opportunity for the right person. Five-day week. Apply Box C 3269, giving full particulars as to experience and training.

OUR 35 YEARS EXPERIENCE in launching thousands of men into well-paid sales careers is at your service. Send today for details of home training and 3 years' appointments service. Sales Careers, Ltd. (Dept. 38), 235 Regent Street, London, W.1.

C 6028 ASSISTANT CHEMIST (perfumery) required



Miles Laboratories Ltd. are expanding their Sales Force; personable young men (preferred age 24-32) who are prepared to work hard and enthusiastically are required in the following territories:-

- 1. Liverpool.
- 2. S. Warwicks, Worcs, Glos, Hereford, Salon,
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- 4. N. Wales, Cheshire.
- 5 & 6. Two areas in Greater London.

Good salary; incentive bonus; car; expenses; superannuation scheme. Applicants should have selling experience and must possess a clean driving licence, Good standards of education and health are essential. Please write, attaching fullest typewritten personal and career details (in strict confidence) and recent photograph—which will be returned to:—Sales Manager (Domestic), Miles Products Division, Miles Laboratories Ltd., Nuffield House, 41-46 Piccadilly, London, W.1.

SUPERVISOR required for general pharmaceut.cal manufacture, Know-ledge of tableting and coating essen-tial, Candidates should be below forty tial, Candidates should be below forty years of age and have experience of the control of male and female labour. The Company is situated some twenty miles North-west of London in the Green Belt and offers favourable conditions of employment.

Please apply in writing giving full details of previous career to the;

Personnel Officer, A. Wander Limited, Ovaltine Works, King's Langley, Herts. C: 3258 EXPERIENCED REPRESENTATIVE required for well-known wholesale warehouse in fashion iewellery. References and car essential. Commission and expense allowance. C 3250

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Preference given to applicant used to pricing invoices for wholesale chemists' trade, or has good knowledge of retail chemists' trade and willing to learn pricing work. Permanent position, Apply in writing stating age and experience to Secretary, Allied Drug & Chemical Co., 1 Robert Street, Hampstead Road, N.W.I. C 3261

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Street, Hampstead Road, N.W.1. C3201

TABLET MAKERS, experienced, are required by Beecham Research Laboratories Limited, Great West Road, Brentford, for the expansion of the Tablet Manufacturing Department. Five-day week of 42 hours, Excellent rate of pay, Pension and Profit Participation Schemes in operation. Please apply in writing to: Personnel Manager. C 6040

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Northumberland
Norfolk and Cambridgeshire
Wiltshire and part Gloucestershire

Apply in writing with particulars of age, education, qualifications and experience to the General Sales Manager, CIBA Laboratories Limited, Horsham, Sussex.

C 6016



MEDICAL REPRESENTATIVES

Benger Laboratories Limited, one of the leading British Pharmaceutical Companies, is expanding its sales force and has several vacancies for Medical Representatives in various parts of England and Wales.

Applications are invited from men over 28 who are desirous of making a career, or furthering their career, in medical representation. Previous experience in the pharmaceutical industry will be an advantage, but applicants with a suitable technical or sales background will be given full consideration.

These positions carry good progressive salaries, according to experience and qualifications. A company car is provided and expenses paid. First class pension schemes are in operation and other benefits include a profit sharing bonus.

Applications, which will be treated in strict confidence, should be sent with a recent photograph, to the Secretary, Benger Laboratories Limited, Holmes Chapel, Cheshire.

C 6031

RIKER LABORATORIES LIMITED

wish to appoint an

AREA REPRESENTATIVE for PAKISTAN

This is an appointment for a suitably qualified man seeking an interesting career to join a vigorous and rapidly growing organisation. Applications are invited from Pharmacists, Graduates or other persons with a pharmaceutical background. Preference will be given to a single man aged 23 to 30.

The duties will consist primarily of promoting the Company's products to the medical and allied professions and candidates must be prepared to undertake extensive local travel.

Remuneration and allowances will be on a generous scale and conditions of service will be in keeping with the status of the appointment. The usual local and home leave facilities will be granted and a Company car will be provided. Pension and life assurance schemes are in operation.

Please apply in writing to:

The Personnel Manager, Riker Laboratories Limited, Morley Street, Loughborough, Leics.

C 6023

Situations Vacant—Continued

STOCKTAKER required by old-established firm of valuers, mainly for London area, Permanency, Previous stocktaking experience preferred, but not essential. Please apply, in own hand-writing, stating age, experience and salary required to Berdoe & Fish, 41 Argyle Square, London, W.C.1.

THOMAS MORSON & SON, LTD.

Manufacturers of Fine Chemicals

Applications are invited for an EX-PERIENCED SALES REPRESENTA-TIVE with a successful selling record, preferably in the chemical industry,

The chosen applicant would be required to cover certain counties in the Midlands, the North of England, and Scotland.

Salary will be in accordance with age, qualifications and experience. A company car is provided, and a contributory pension scheme with free life insurance is in operation.

Please write, in confidence, giving full details, to:

Personnel Manager, Thomas Morson & Son, Ltd., Wharf Road, Ponders End, Enfield, Middlesex.

C 3268

AGENTS WANTED

AGENTS WANTED covering South Wales, Home Counties, Greater London, Birmingham and Wolverhampton areas, Must have live connections. Highest commission offered if you can sell the cheapest complete range of household acrosols marketed in Great Britain today. Write to Sales Director, D.C.M.C., Ltd., 2A Parkhurst Road, London, N.7, C 5989

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EAST LANCS. Male (31), experienced in all departments of manufacturing chemists, Ten years laboratory, six years tablet department, Desires change, Box C 3256.

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TO ACT AS AGENT OR PRINCIPAL.
Gentleman with valuable connection with wholesale druggists, manufacturing chemists, cosmeticians, and desires a line to run with zine oxide, Box C 6037.

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FRENCH toiletry and perfumery company having manufacturing facilities and sales force (stores, chemists and perfumeries) wish to contact companies interested in setting up in France, Box C 6006.

PATON'S DENTAL OINTMENT. The ORI-GINAL—25 years' reputation. Best for mouth ulcers, cold sores, sore gums, split and chapped lips, new or old denture users and general family use, A COUNTER display OUTER of one dozen should be on EVERY wise CHEM-IST'S counter, because it sells, repeats and shows top rate profit. Guaranteed to please YOU. ORDER NOW. Thornton & Ross, Ltd., Distributors, Huddersfield. C 6035

RIKER LABORATORIES LIMITED

WANTED

(owing to the promotion of the incumbent)

A KEEN YOUNG PHARMACIST AS PERSONAL ASSISTANT TO THE WORKS MANAGER

The successful candidate must have had experience of manufacture or product development. Success in the position may well lead to executive status within a rapidly expanding company. Salary will be commensurate with experience, and the Jusual benefits in terms of holidays, pension and life assurance schemes apply. Applications should be addressed to:

The Personnel Manager,

Riker Laboratories Limited, Morley Street, Loughborough, Leics.

C 6036

WANTED

SURPLUS CAMERAS, ENLARGERS, CINE CAMERAS & PROJECTORS, PHOTOGRAPHIC EQUIPMENT OF EVERY DESCRIPTION, SURPLUS AND OUTDATED FILM & PAPER. Phone, write or call:—

SPEARS
(Dept. D.), Watting Street, Shudehill,
Manchester.

Phone: Blackfriars 9432 (5 lines)
Bankers: Midland Bank, Ltd.

C 438

SHOP STOCK. Job and surplus goods wanted for cash. M. Myers, 79 The High, Streatham High Street, London, S.W.16. STR. 3562.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledburg Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

URGENTLY required for cash, chemists' surplus stocks, bulk or part, particularly toilets, cosmetics, sundries, discontinued manufacturers' lines welcomed, Films, photographic equipment, sunglasses, binoculars, electric razors, Christmas coffrets and fancy goods, etc. Write immediately to Reginald Loftus, 263 Portswood Road, Southampton, Tel.: 54757. C 521

TENDERS

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The Hospital Management Committees of the North-east Metropolitan Region will shortly be inviting quotations for a joint contract covering a range of drugs and pharmaceutical preparations. A panel of suppliers from whom tenders will be invited is in course of preparation, and contractors wishing to be included should write at once to the Group Secretary, Hackney Hospital, London, E.9. C 6041

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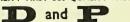
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PHARMACIST commencing own business desires to purchase any surplus fittings, fixtures, etc. Will view anywhere in Midlands, Box C 3265.

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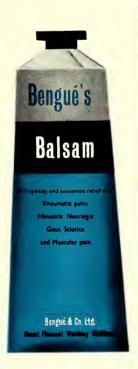
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a new attractive pack for Bengué's Balsam

Formula
Menthol 20%
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In a Lanoline base

For speedy and sustained relief in Rheumatic pains, Fibrositis, Neuralgia, Gout, Sciatica and Muscular pain.









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Formula

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Greaseless base to 100 G

NEW Bengue's Balsam

As an alternative for daytime use, New Bengue's Balsam presents the original therapy in a vanishing, stainless and greaseless base.

Packs and basic NHS costs

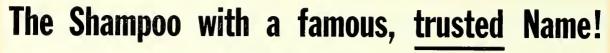
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½ oz. and 1 oz. tubes, 1 lb dispensing jars, basic NHS costs, 1/5½d, 2/3½d and 28/- respectively.

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BG 25



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